

THE JUMBO BOOK OF VISUAL MULTIPLICATION STRATEGY FLASHCARDS

FLASHCARD GAMES INCLUDE

- MULTIPLICATION BATTLE
- CONCENTRATION GAME
- ARRAY IT!
- EQUAL GROUP IT!
- WHAT'S MISSING?
- CLIP IT!
- DICE IT!
- SQUARE NUMBERS



MATH FACT FLUENCY PLAYGROUND, LLC.

THE JUMBO BOOK OF VISUAL MULTIPLICATION STRATEGY FLASHCARDS

**MATH FACT FLUENCY PLAYGROUND LLC
BRIDGEPORT, CT**

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Flashcards created by
Dr. Nicki Newton

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EXERCISING YOUR BRAIN!

THIS BOOK WILL HELP YOU PRACTICE YOUR MATH FACT FLUENCY! MATH FACT FLUENCY IS 3 THINGS:

1. GETTING THE CORRECT ANSWER AND KNOWING HOW TO EXPLAIN IT.

2. BEING ABLE TO THINK FLEXIBLY (KNOWING LOTS OF WAYS TO PLAY AROUND WITH THE NUMBERS).

3. BEING EFFICIENT (WHICH MEANS YOU CAN FIND A WAY TO DO IT THAT IS QUICK AND EASY)!

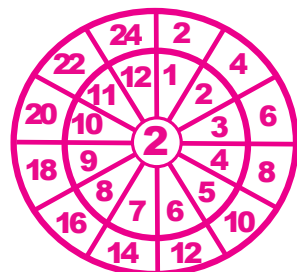
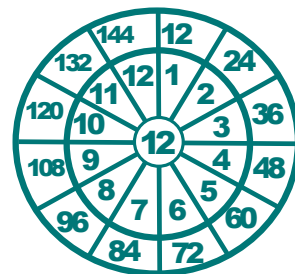
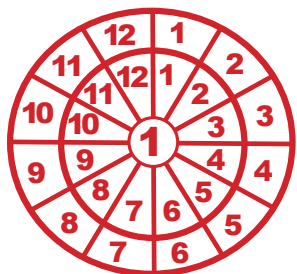
PRACTICING IN MANY DIFFERENT WAYS WILL HELP YOU TO BECOME AUTOMATIC! THIS MEANS YOU DON'T EVEN HAVE TO THINK ABOUT THE PROBLEM, YOU JUST KNOW IT!

THESE VISUAL MATH FLASHCARDS WILL DO ALL OF THE ABOVE.

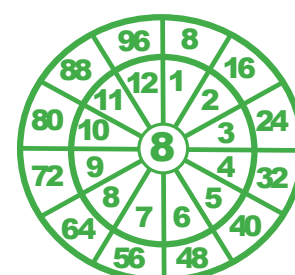
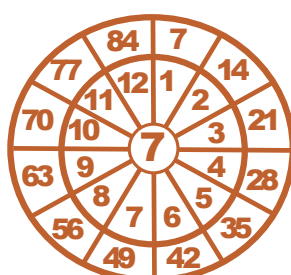
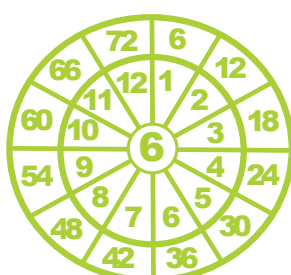
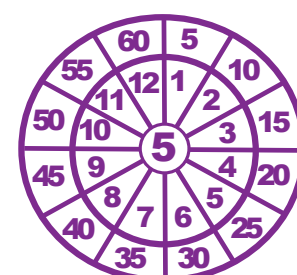
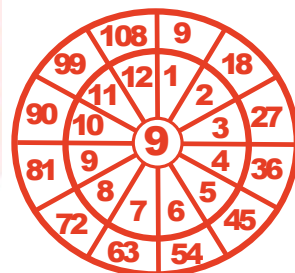
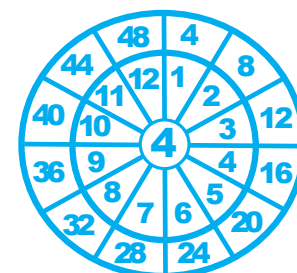
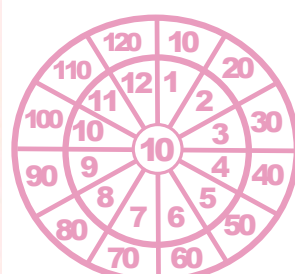
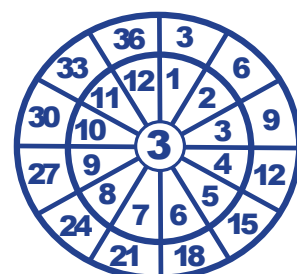
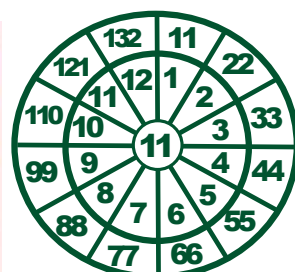
HAPPY MATHING!



THIS PAGE HAS A FEW TOOLS TO HELP YOU SOLVE THE PROBLEMS. THESE ARE SOME MULTIPLICATION WHEELS AND A MULTIPLICATION CHART. THERE IS AN ANSWER KEY IN THE BACK OF THE BOOK SO YOU CAN CHECK YOUR WORK AT THE END TOO!



X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100



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TEACHERS CAN JOIN OUR FREE
MEMBERSHIP AND GET PLENTY OF
ACTIVITIES TO HELP
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DRNICKI@MATHFACTFLUENCYPLAYGROUND.COM**

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PROGRESSION OF MULTIPLICATION

RESEARCH NOTES

- 1 counting all
- 2 additive calculation
- 3 count by
- 4 pattern based
- 5 learned products
- 6 hybrids

(Sherin and Fuson, 2005)

JOURNEY TO FLUENCY

FLUENCY IS

1 EFFICIENCY

2 ACCURACY

3 FLEXIBILITY

(NRC, Kilpatrick et al., 2001; NCTM 2000; NCTM, 2014)



MULTIPLYING
BY 0
0 X 1

MULTIPLYING
BY 4
4 X 3

MULTIPLYING
BY 8
8 X 6

MULTIPLYING
BY 7
7 X 6

MULTIPLYING
BY SQUARES
8 X 8

MULTIPLYING
BY 3
3 X 9

MULTIPLYING
BY 2
2 X 7

MULTIPLYING
BY 1
1 X 9

MULTIPLYING
BY 10
10 X 5

MULTIPLYING
BY 6
6 X 5

MULTIPLYING
BY 5
5 X 0

MULTIPLYING
BY 9
9 X 2

SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

VISUAL MULTIPLICATION STRATEGY FLASHCARDS

IN THIS BOOK THERE ARE MANY DIFFERENT KINDS OF VISUAL MULTIPLICATION STRATEGY FLASHCARDS TO HELP YOU WORK ON YOUR MATH FACT FLUENCY! EACH SECTION WILL INCLUDE THE INSTRUCTIONS AND THE FLASHCARDS! HAVE FUN!

$$5 \times 2$$



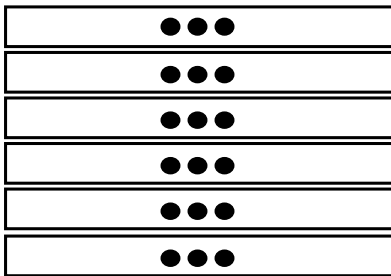
www.mathfactfluencyplayground.com

$$2 \times 5$$



www.mathfactfluencyplayground.com

ARRAY



$$6 \times 3 = ?$$

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18

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**HAPPY MATHING,
DR. NICKI**



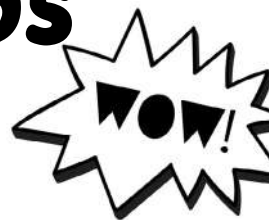
**THIS BOOK
BELONGS TO**

NAME





THE JUMBO BOOK OF VISUAL MULTIPLICATION STRATEGY FLASHCARDS



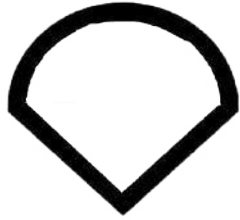
GAMES TO PLAY WITH THE CARDS:

- 1. PRACTICE THE FLASHCARDS BY LOOKING AT THE PROBLEM AND DISCUSSING WHAT THE ANSWER MIGHT BE. THIS IS A TRADITIONAL USE OF FLASHCARDS, WITH A VISUAL ASPECT. STUDENTS SHOULD BE ENCOURAGED TO EXPLAIN THEIR THINKING THROUGHOUT THE PROCESS.**
- 2. MULTIPLICATION BATTLE IS WHERE STUDENTS EACH PULL A CARD AND THEN WHOEVER HAS THE GREATEST PRODUCT WINS THE CARD. AT THE END, WHOEVER HAS THE MOST CARDS WINS.**
- 3. MATCH GAMES ARE WHERE STUDENTS HAVE TO MATCH THE CARDS (OFTEN TIMES THEY ARE FACE UP). CONCENTRATION GAMES ARE A DIFFERENT VERSION OF THIS WHERE THE CARDS ARE FACE DOWN AND THE STUDENTS HAVE TO MATCH THE CARDS IN DIFFERENT WAYS.**

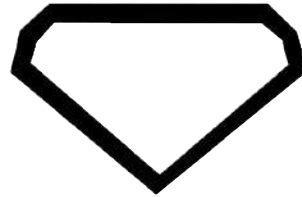


KEEP TRACK OF YOUR STRATEGY PRACTICE!

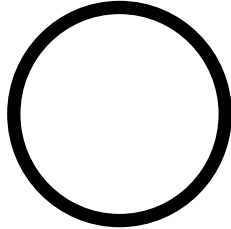
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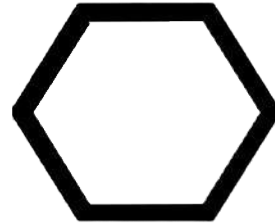
MULTIPLYING BY 1



MULTIPLYING BY 10



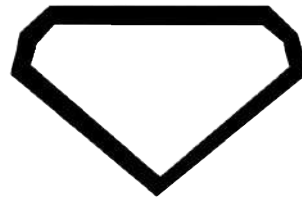
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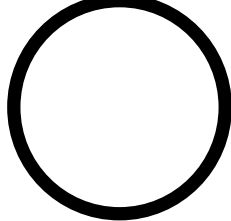
MULTIPLYING BY 2



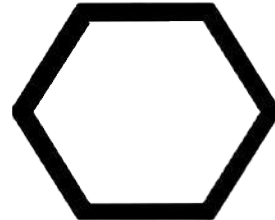
MULTIPLYING BY 4



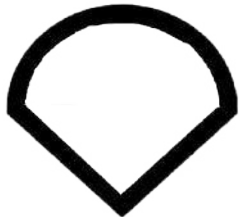
MULTIPLYING BY 8



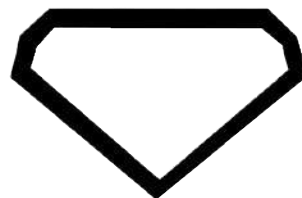
MULTIPLYING BY 3



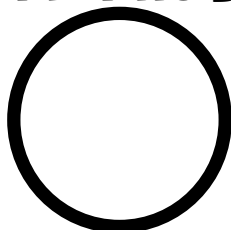
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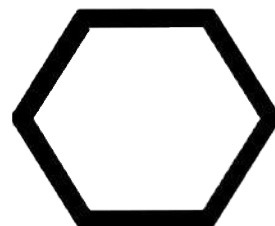
MULTIPLYING BY 9



MULTIPLYING BY 7



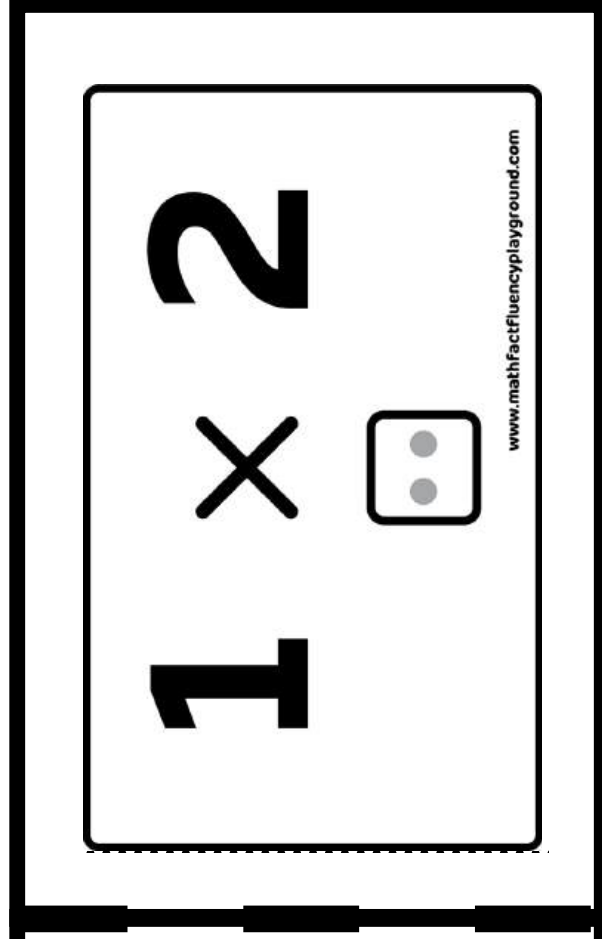
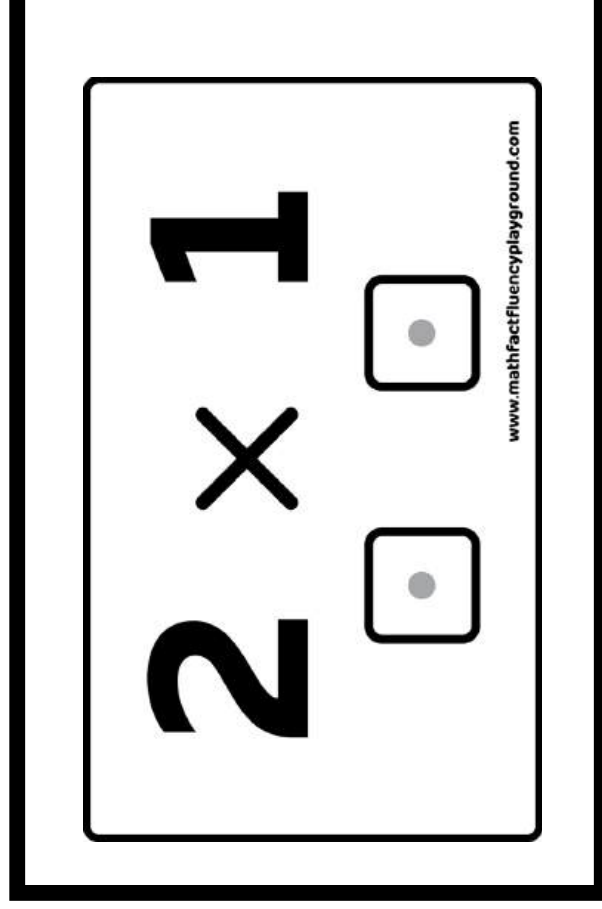
MULTIPLYING BY SQUARES



DICE FLASHCARDS


Dice Flashcards


These are visual multiplication dice cards. The dice cards help students to visualize the facts. They also help students to practice the commutative property. It is important to teach the properties from the beginning. When working with these cards separate them by different strategies. For example, make a set of multiplying by 1. Make sure that students can explain the strategy. What happens when you multiply by 1? Make a different set of multiplying by 2. Ask students what happens when you multiply by 2? Be sure to have students always explain what is the strategy for the set of cards that they are multiplying.





DICE FLASHCARDS




$1 \times 1 = 1$

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$1 \times 1 = 1$

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$2 \times 1 = 2$


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$1 \times 2 = 2$

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DICE FLASHCARDS




3×1



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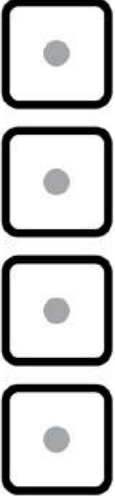
1×3



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4×1



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1×4



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DICE FLASHCARDS



$$5 \times 1$$



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$$1 \times 5$$



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$$6 \times 1$$


www.mathfactfluencyplayground.com



$$1 \times 6$$



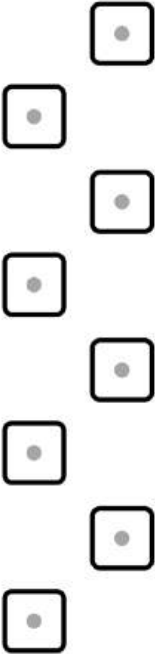

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DICE FLASHCARDS



7×1	1×7
	
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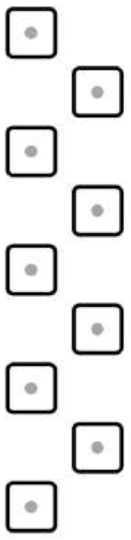


8×1	1×8
	
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DICE FLASHCARDS




9 \times **1**



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1 \times **9**



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10 \times **1**



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1 \times **10**





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DICE FLASHCARDS





1 \times **2**

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2 \times **1**

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2 \times **2**

www.mathfactfluencyplayground.com


2 \times **2**


 

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DICE FLASHCARDS




3×2

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2×3

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4×2

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2×4

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DICE FLASHCARDS




5×2



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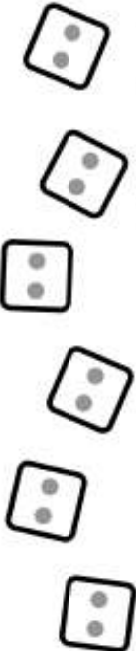
2×5



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6×2



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2×6

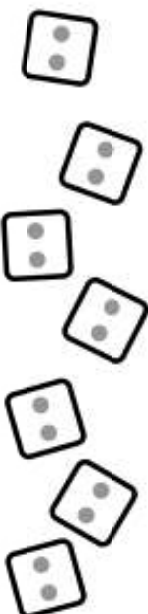


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DICE FLASHCARDS




7 × 2



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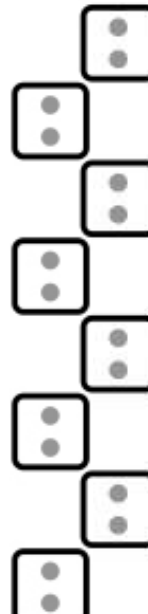
2 × 7



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8 × 2



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2 × 8

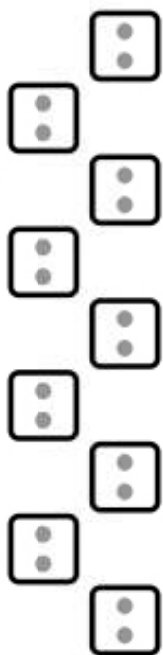


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DICE FLASHCARDS




9×2



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2×9



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10×2



www.mathfactfluencyplayground.com

2×10




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DICE FLASHCARDS




1 \times **3**



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3 \times **1**



www.mathfactfluencyplayground.com




2 \times **3**



www.mathfactfluencyplayground.com


3 \times **2**




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DICE FLASHCARDS




3×3

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3×3

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4×3

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3×4

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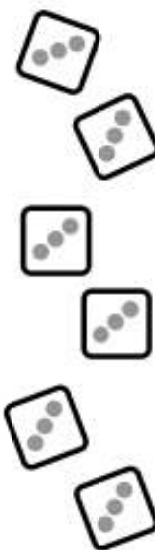
DICE FLASHCARDS




5×3

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3×5

www.mathfactfluencyplayground.com



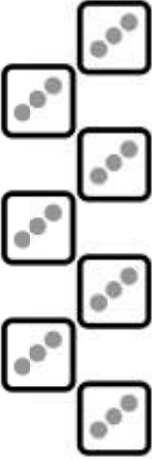
6×3

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3×6

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DICE FLASHCARDS




7 \times **3**



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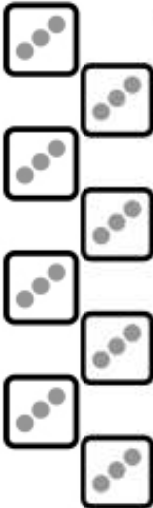
3 \times **7**



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8 \times **3**



www.mathfactfluencyplayground.com

3 \times **8**

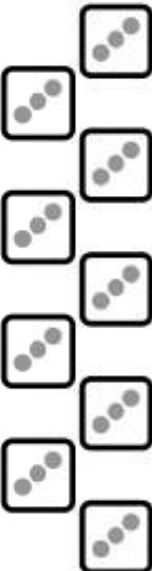


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DICE FLASHCARDS




9 **×** **3**



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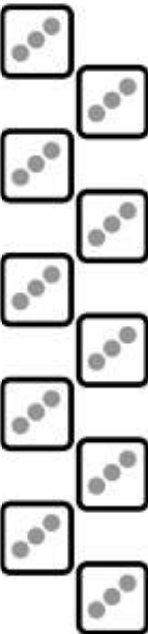
3 **×** **9**



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10 **×** **3**



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3 **×** **10**




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DICE FLASHCARDS




1×4

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4×1

www.mathfactfluencyplayground.com




2×4

www.mathfactfluencyplayground.com

4×2

www.mathfactfluencyplayground.com

DICE FLASHCARDS




3 \times **4**



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4 \times **3**



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4 \times **4**



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4 \times **4**




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DICE FLASHCARDS

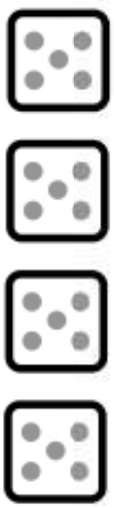


5 \times **4**



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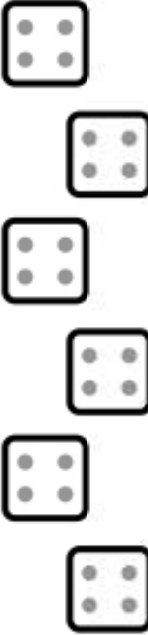
4 \times **5**



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6 \times **4**



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4 \times **6**

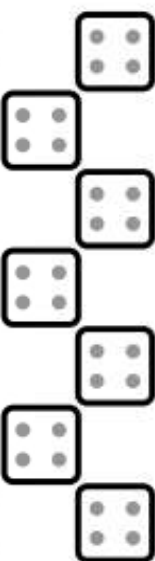


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DICE FLASHCARDS




7 \times **4**



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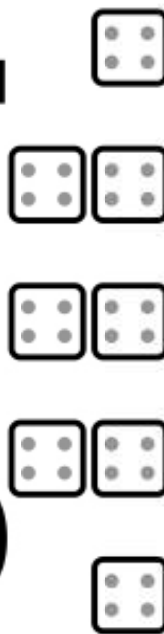
4 \times **7**



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8 \times **4**



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4 \times **8**

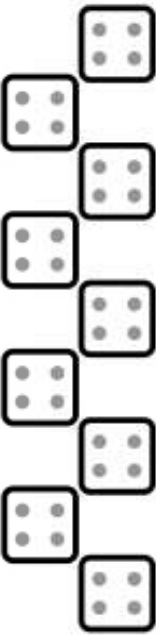


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DICE FLASHCARDS

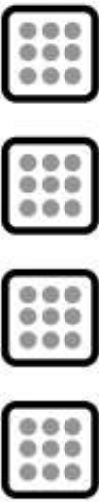


9 × 4



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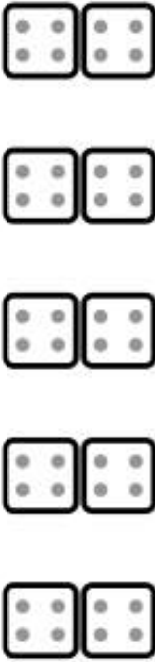
4 × 9



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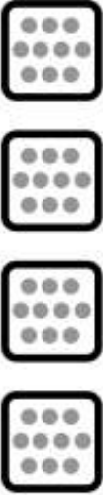


10 × 4



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4 × 10




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DICE FLASHCARDS




1 \times **5**



www.mathfactfluencyplayground.com


5 \times **1**



www.mathfactfluencyplayground.com




2 \times **5**



www.mathfactfluencyplayground.com

5 \times **2**




www.mathfactfluencyplayground.com

DICE FLASHCARDS



3 × 5



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5 × 3



www.mathfactfluencyplayground.com




4 × 5



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5 × 4




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DICE FLASHCARDS




5 × 5

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5 × 5

www.mathfactfluencyplayground.com




6 × 5

www.mathfactfluencyplayground.com



5 × 6

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DICE FLASHCARDS



7

×

5

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5

×

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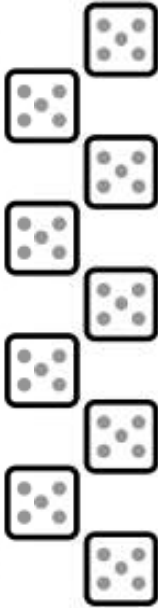
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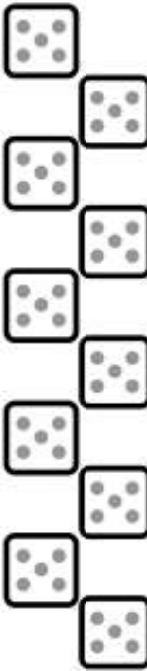
DICE FLASHCARDS




9×5

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5×9

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10×5

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5×10

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**ODD
AND
EVEN**

ODD AND EVEN

Many of the standards ask students to be able to discuss and explain what happens when you multiply:

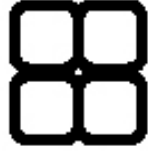
Even x Even

Odd x Odd

Even x Odd

These flashcards help students to visualize the math facts and results of multiplying these problems.

$$2 \times 2 = ?$$



Even x Even = ?

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4

Even

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ODD AND EVEN



$$2 \times 2 = ?$$



Even \times Even = ?

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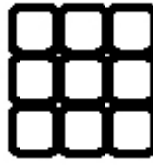
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Even

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$$3 \times 3 = ?$$



Odd \times Odd = ?

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9

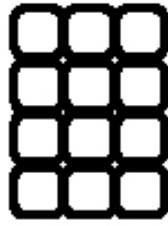
Odd

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ODD AND EVEN



$$3 \times 4 = ?$$



$$\text{Odd} \times \text{Even} = ?$$

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Even

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$$3 \times 2 = ?$$



$$\text{Odd} \times \text{Even} = ?$$

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Even

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ODD AND EVEN



$$2 \times 1 = ?$$

8

Even \times Odd = ?

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2

Even

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$$4 \times 4 = ?$$



Even \times Even = ?

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16

Even

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ODD AND EVEN



$$2 \times 4 = ?$$



Even \times Even = ?

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$$5 \times 2 = ?$$



Odd \times Even = ?

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10

Even

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ODD AND EVEN



$$3 \times 6 = ?$$



Odd x Even = ?

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18

Even

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$$2 \times 7 = ?$$



Even x Odd = ?

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14

Even

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ODD AND EVEN



$$1 \times 3 = ?$$



$$\text{Odd} \times \text{Odd} = ?$$

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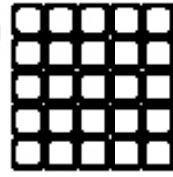
3

Odd

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$$5 \times 5 = ?$$



$$\text{Odd} \times \text{Odd} = ?$$

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25

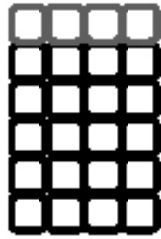
Odd

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ODD AND EVEN



$$4 \times 6 = ?$$



Even \times Even = ?

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24

Even

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$$3 \times 5 = ?$$



Odd \times Odd = ?

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15

Odd

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DISTRIBUTIVE PROPERTY

Distributive Property

It is important to teach properties from the very beginning and as a part of the process rather than a sidebar lesson. We need students to be able to visualize the properties and explain what is happening and how and why we would use them. We want students to understand that they can take a problem and break it apart into friendlier numbers. You can break up the number and multiply a factor by two addends that make up the other factor, you can first multiply the factor by each addend and then add the sum.

Distributive Property

$$2 \times 3 \quad 2 \times 2 + 2 \times 1$$



$$2 \times 3 = (2 \times 2) + (2 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

<p>Distributive Property</p> $1 \times 2 = 1 \times 1 + 1 \times 1$ <p>● ● = ● ● + ● ●</p> <p>$1 \times 2 = (1 \times 1) + (1 \times 1) = ?$</p> <p>www.mathfactfluencyplayground.com</p>	<p>2</p> <p>www.mathfactfluencyplayground.com</p>
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DISTRIBUTIVE PROPERTY

Distributive Property

$$1 \times 3 \quad 1 \times 2 + 1 \times 1$$

$$\bullet \bullet \bullet = \bullet \bullet + \bullet$$

$$1 \times 3 = (1 \times 2) + (1 \times 1) = ?$$

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3

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Distributive Property

$$1 \times 4 \quad 1 \times 2 + 1 \times 2$$

$$\bullet \bullet \bullet \bullet = \bullet \bullet + \bullet \bullet$$

$$1 \times 4 = (1 \times 2) + (1 \times 2) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$1 \times 5 \quad 1 \times 3 + 1 \times 2$$

$$\bullet \bullet \bullet \bullet = \bullet \bullet \bullet + \bullet \bullet$$

$$1 \times 5 = (1 \times 3) + (1 \times 2) = ?$$

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5

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Distributive Property

$$1 \times 6 \quad 1 \times 5 + 1 \times 1$$

$$\bullet \bullet \bullet \bullet \bullet = \bullet \bullet \bullet \bullet \bullet + \bullet$$

$$1 \times 6 = (1 \times 5) + (1 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$1 \times 7 \quad 1 \times 5 + 1 \times 2$$

$$\bullet \bullet \bullet \bullet \bullet \bullet = \bullet \bullet \bullet \bullet + \bullet \bullet$$

$$1 \times 7 = (1 \times 5) + (1 \times 2) = ?$$

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Distributive Property

$$1 \times 8 \quad 1 \times 5 + 1 \times 3$$

$$\bullet \bullet \bullet \bullet \bullet \bullet = \bullet \bullet \bullet \bullet + \bullet \bullet$$

$$1 \times 8 = (1 \times 5) + (1 \times 3) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$1 \times 9 \quad 1 \times 5 + 1 \times 4$$

$$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet = \bullet \bullet \bullet \bullet + \bullet \bullet \bullet$$

$$1 \times 9 = (1 \times 5) + (1 \times 4) = ?$$

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Distributive Property

$$1 \times 10 \quad 1 \times 5 + 1 \times 5$$

$$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet = \bullet \bullet \bullet \bullet + \bullet \bullet \bullet \bullet$$

$$1 \times 10 = (1 \times 5) + (1 \times 5) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$2 \times 1 \quad 1 \times 1 + 1 \times 1$$

$$\bullet \quad \bullet = \bullet + \bullet$$

$$2 \times 1 = (1 \times 1) + (1 \times 1) = ?$$

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Distributive Property

$$2 \times 2 \quad 2 \times 1 + 2 \times 1$$

$$\bullet \bullet \quad \bullet \bullet = \bullet \bullet + \bullet \bullet$$

$$2 \times 2 = (2 \times 1) + (2 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$2 \times 3 \quad 2 \times 2 + 2 \times 1$$

$$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array} = \begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array} + \begin{array}{c} \bullet \\ \bullet \end{array}$$

$$2 \times 3 = (2 \times 2) + (2 \times 1) = ?$$

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Distributive Property

$$2 \times 4 \quad 2 \times 2 + 2 \times 2$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} = \begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array} + \begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$$

$$2 \times 4 = (2 \times 2) + (2 \times 2) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$2 \times 5 \quad 2 \times 3 + 2 \times 2$$



$$2 \times 5 = (2 \times 3) + (2 \times 2) = ?$$

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Distributive Property

$$2 \times 6 \quad 2 \times 5 + 2 \times 1$$



$$2 \times 6 = (2 \times 5) + (2 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$2 \times 7 \quad 2 \times 5 + 2 \times 2$$



$$2 \times 7 = (2 \times 5) + (2 \times 2) = ?$$

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Distributive Property

$$2 \times 8 \quad 2 \times 5 + 2 \times 3$$



$$2 \times 8 = (2 \times 5) + (2 \times 3) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$2 \times 9 \quad 2 \times 5 + 2 \times 4$$



$$2 \times 9 = (2 \times 5) + (2 \times 4) = ?$$

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Distributive Property

$$2 \times 10 \quad 2 \times 5 + 2 \times 5$$



$$2 \times 10 = (2 \times 5) + (2 \times 5) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$3 \times 1 \quad 2 \times 1 + 1 \times 1$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} = \begin{array}{c} \bullet \\ \bullet \end{array} + \begin{array}{c} \bullet \end{array}$$

$$3 \times 1 = (2 \times 1) + (1 \times 1) = ?$$

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3

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Distributive Property

$$3 \times 2 \quad 3 \times 1 + 3 \times 1$$

$$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \end{array} = \begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} + \begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array}$$

$$3 \times 2 = (3 \times 1) + (3 \times 1) = ?$$

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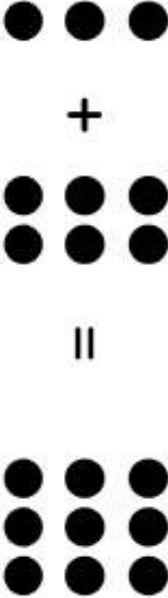
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DISTRIBUTIVE PROPERTY

Distributive Property

$$3 \times 3 \quad 3 \times 2 + 3 \times 1$$


$$3 \times 3 = (3 \times 2) + (3 \times 1)$$

$$3 \times 3 = (3 \times 2) + (3 \times 1) = ?$$

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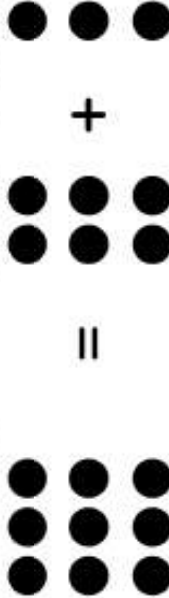
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Distributive Property

$$3 \times 3 \quad 3 \times 2 + 3 \times 1$$


$$3 \times 3 = (3 \times 2) + (3 \times 1)$$

$$3 \times 3 = (3 \times 2) + (3 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$3 \times 5 = 3 \times 3 + 3 \times 2$$

$$3 \times 5 = (3 \times 3) + (3 \times 2) = ?$$

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Distributive Property

$$3 \times 6 = 3 \times 5 + 3 \times 1$$

$$3 \times 6 = (3 \times 5) + (3 \times 1) = ?$$

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18

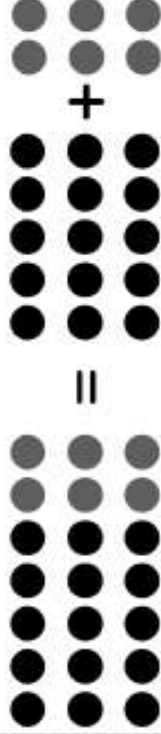
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DISTRIBUTIVE PROPERTY

Distributive Property

$$3 \times 7 = 3 \times 5 + 3 \times 2$$



$$3 \times 7 = (3 \times 5) + (3 \times 2) = ?$$

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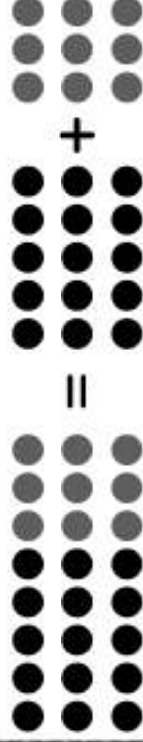
21

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Distributive Property

$$3 \times 8 = 3 \times 5 + 3 \times 3$$



$$3 \times 8 = (3 \times 5) + (3 \times 3) = ?$$

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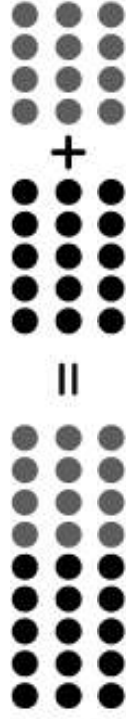
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DISTRIBUTIVE PROPERTY

Distributive Property

$$3 \times 9 \quad 3 \times 5 + 3 \times 4$$



$$3 \times 9 = (3 \times 5) + (3 \times 4) = ?$$

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Distributive Property

$$3 \times 10 \quad 3 \times 5 + 3 \times 5$$



$$3 \times 10 = (3 \times 5) + (3 \times 5) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$4 \times 1 \quad 2 \times 1 + 2 \times 1$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \bullet \end{array} = \begin{array}{c} \bullet \\ \bullet \end{array} + \begin{array}{c} \bullet \\ \bullet \end{array}$$

$$4 \times 1 = (2 \times 1) + (2 \times 1) = ?$$

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4

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Distributive Property

$$4 \times 2 \quad 4 \times 1 + 4 \times 1$$

$$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \end{array} = \begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \bullet \end{array} + \begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \bullet \end{array}$$

$$4 \times 2 = (4 \times 1) + (4 \times 1) = ?$$

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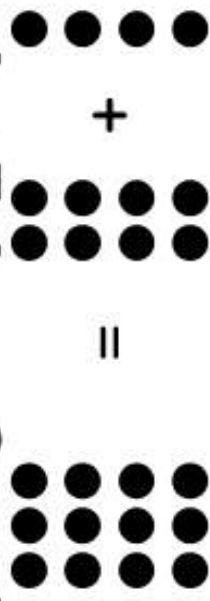
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DISTRIBUTIVE PROPERTY

Distributive Property

$$4 \times 3 = 4 \times 2 + 4 \times 1$$



$$4 \times 3 = (4 \times 2) + (4 \times 1) = ?$$

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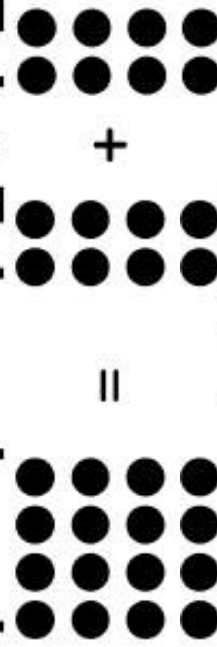
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Distributive Property

$$4 \times 4 = 4 \times 2 + 4 \times 2$$



$$4 \times 4 = (4 \times 2) + (4 \times 2) = ?$$

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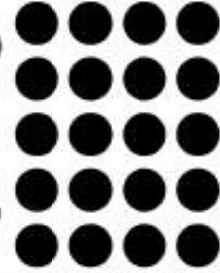
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DISTRIBUTIVE PROPERTY

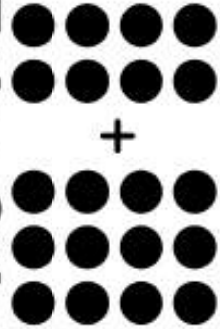
Distributive Property

$$4 \times 5$$



=

$$4 \times 3 + 4 \times 2$$



$$4 \times 5 = (4 \times 3) + (4 \times 2) = ?$$

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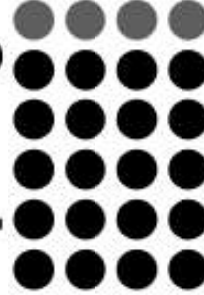
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Distributive Property

$$4 \times 6$$



=

$$4 \times 5 + 4 \times 1$$



$$4 \times 6 = (4 \times 5) + (4 \times 1) = ?$$

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24

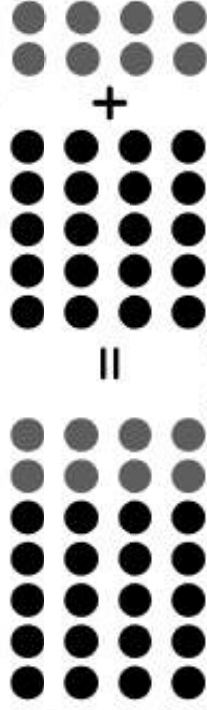
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DISTRIBUTIVE PROPERTY

Distributive Property

$$4 \times 7 \quad 4 \times 5 + 4 \times 2$$



$$4 \times 7 = (4 \times 5) + (4 \times 2) = ?$$

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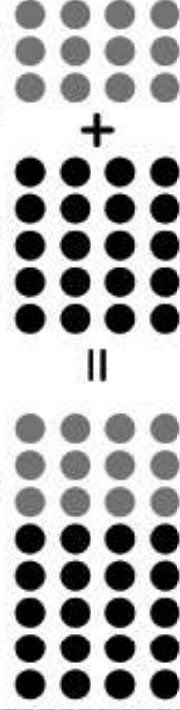
28

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Distributive Property

$$4 \times 8 \quad 4 \times 5 + 4 \times 3$$



$$4 \times 8 = (4 \times 5) + (4 \times 3) = ?$$

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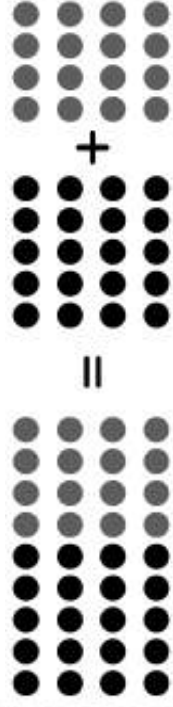
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DISTRIBUTIVE PROPERTY

Distributive Property

$$4 \times 9 \quad 4 \times 5 + 4 \times 4$$



$$4 \times 9 = (4 \times 5) + (4 \times 4) = ?$$

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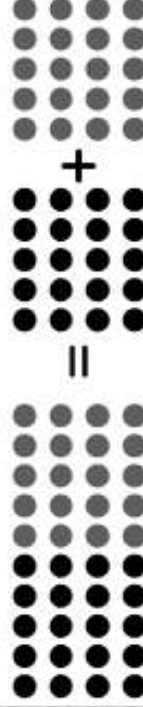
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Distributive Property

$$4 \times 10 \quad 4 \times 5 + 4 \times 5$$



$$4 \times 10 = (4 \times 5) + (4 \times 5) = ?$$

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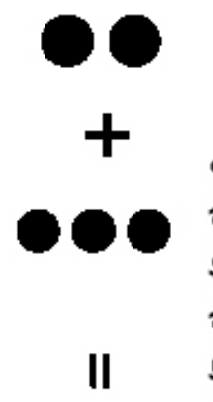
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DISTRIBUTIVE PROPERTY

5 \times **1** **3** \times **1** + **2** \times **1**



5 \times **1** = **3** \times **1** + **2** \times **1**

5 \times **1** = **(3** \times **1)** + **(2** \times **1)** = ?

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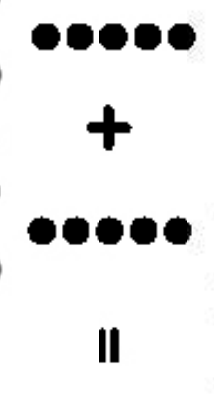
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5

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5 \times **2** **5** \times **1** + **5** \times **1**



5 \times **2** = **5** \times **1** + **5** \times **1**

5 \times **2** = **(5** \times **1)** + **(5** \times **1)** = ?

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DISTRIBUTIVE PROPERTY

Distributive Property

$$5 \times 3 = 5 \times 2 + 5 \times 1$$

$5 \times 3 = (5 \times 2) + (5 \times 1) = ?$

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Distributive Property

$$5 \times 4 = 5 \times 2 + 5 \times 2$$

$5 \times 4 = (5 \times 2) + (5 \times 2) = ?$

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20

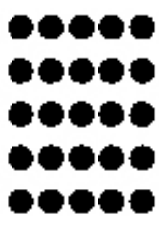
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DISTRIBUTIVE PROPERTY

Distributive Property

$$5 \times 5 = 5 \times 3 + 5 \times 2$$


=

+

$$5 \times 5 = (5 \times 3) + (5 \times 2) = ?$$

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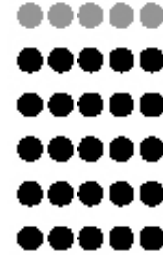
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Distributive Property

$$5 \times 6 = 5 \times 5 + 5 \times 1$$


=

+

$$5 \times 6 = (5 \times 5) + (5 \times 1) = ?$$

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DISTRIBUTIVE PROPERTY

Distributive Property

$$5 \times 7 \quad 5 \times 5 + 5 \times 2$$



$$5 \times 7 = (5 \times 5) + (5 \times 2) = ?$$

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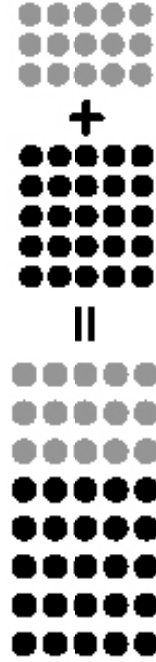
35

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Distributive Property

$$5 \times 8 \quad 5 \times 5 + 5 \times 3$$



$$5 \times 8 = (5 \times 5) + (5 \times 3) = ?$$

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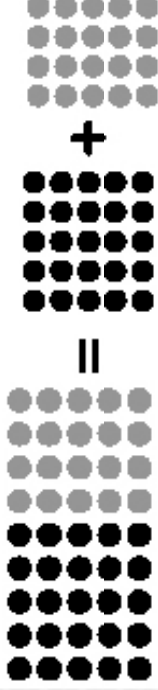
40

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DISTRIBUTIVE PROPERTY

Distributive Property

$$5 \times 9 = 5 \times 5 + 5 \times 4$$


$$5 \times 9 = (5 \times 5) + (5 \times 4) = ?$$

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Distributive Property

$$5 \times 10 = 5 \times 5 + 5 \times 5$$


$$5 \times 10 = (5 \times 5) + (5 \times 5) = ?$$

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50

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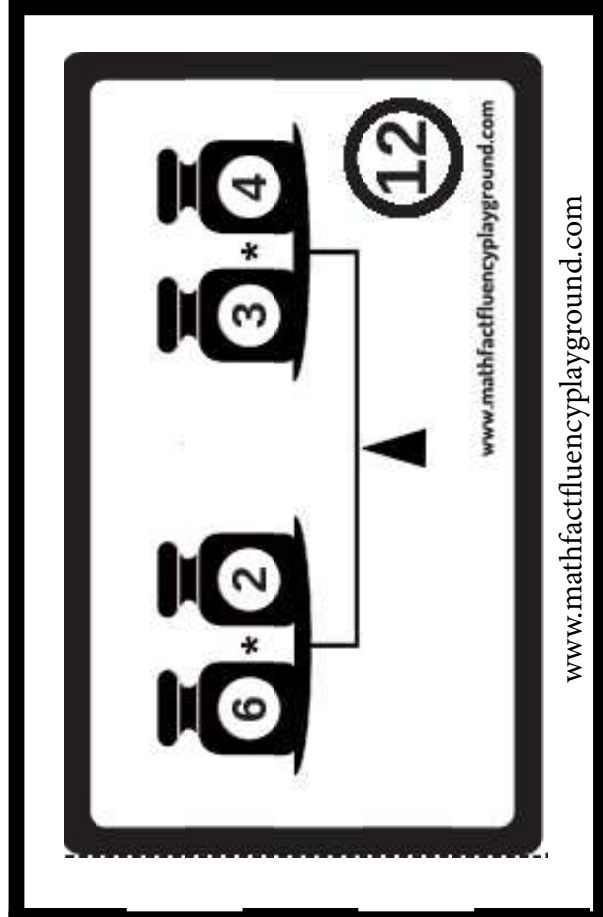
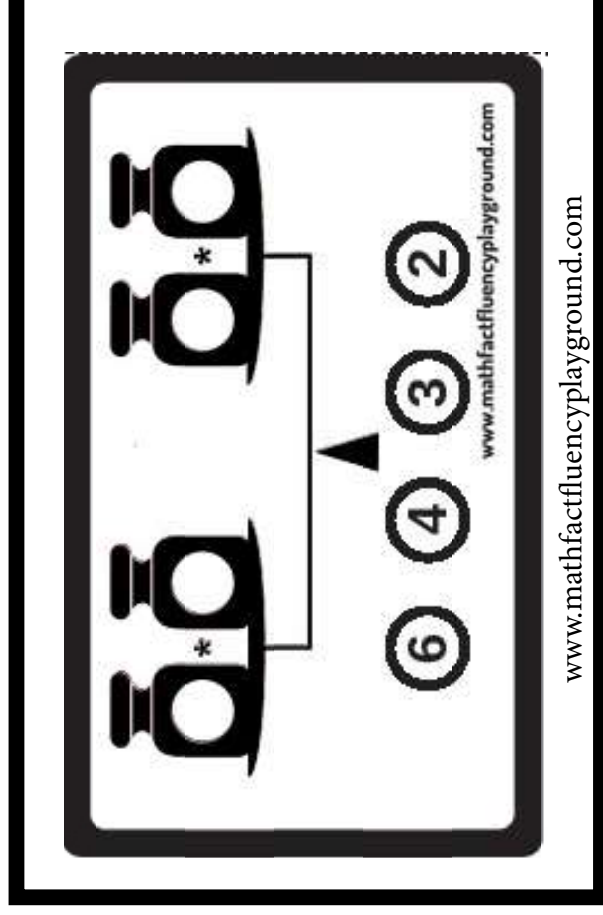
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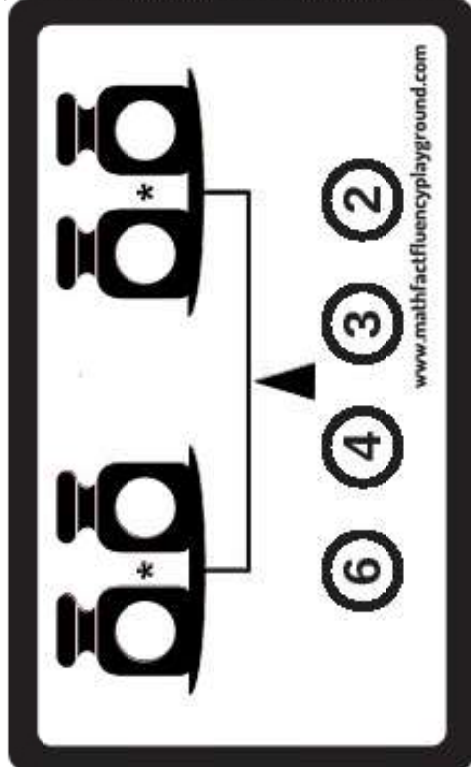
**BALANCE
PUZZLE
FLASHCARDS**

Balance Puzzle Flashcards

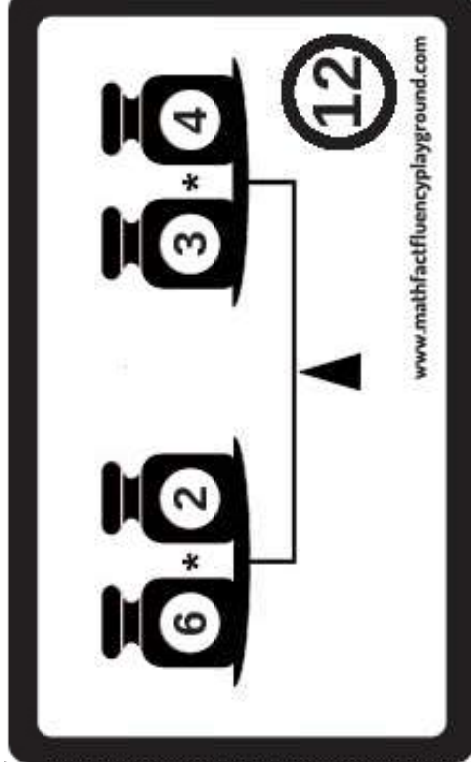
These are flashcards that require students to reason. They have to look at the numbers on each side of the scale and decide how to organize the numbers in a way that the scale is balanced.



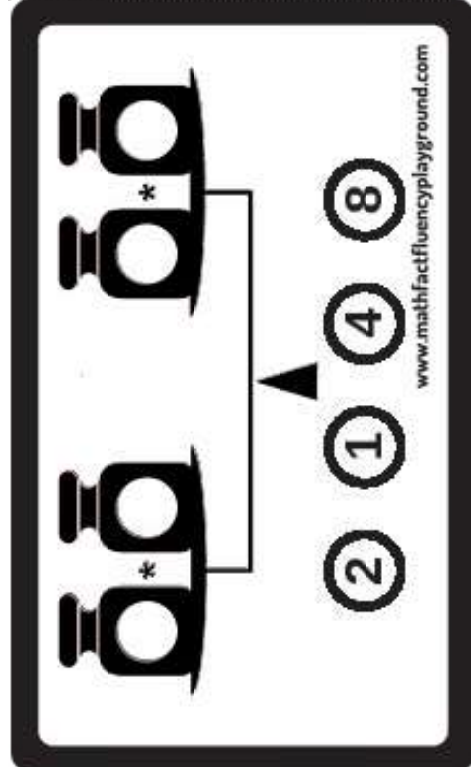
BALANCE PUZZLE



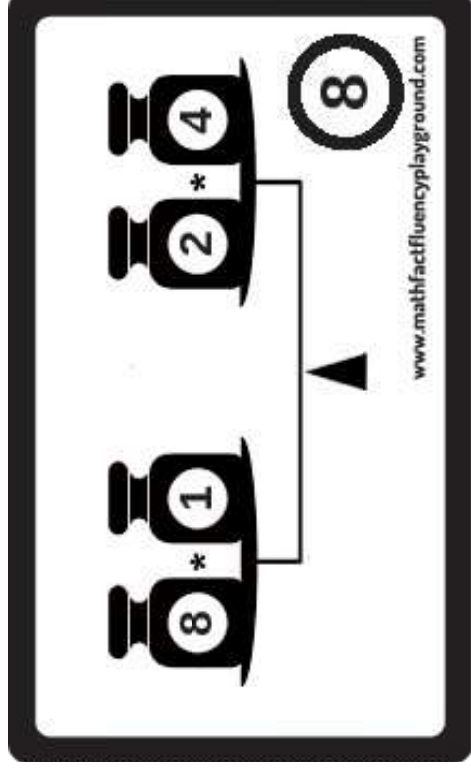
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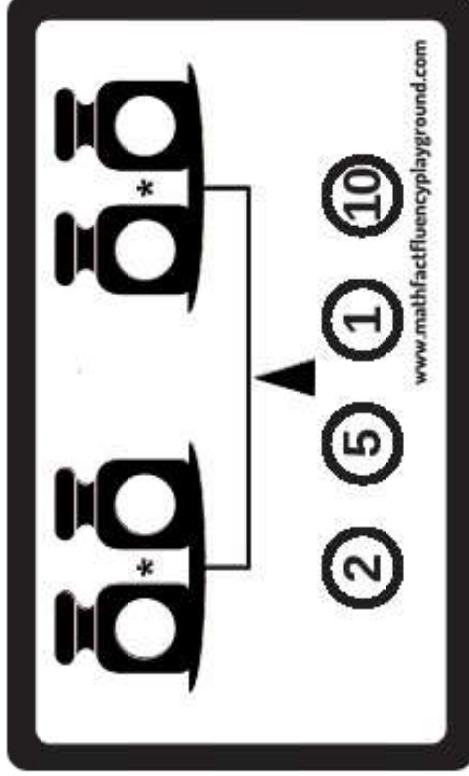


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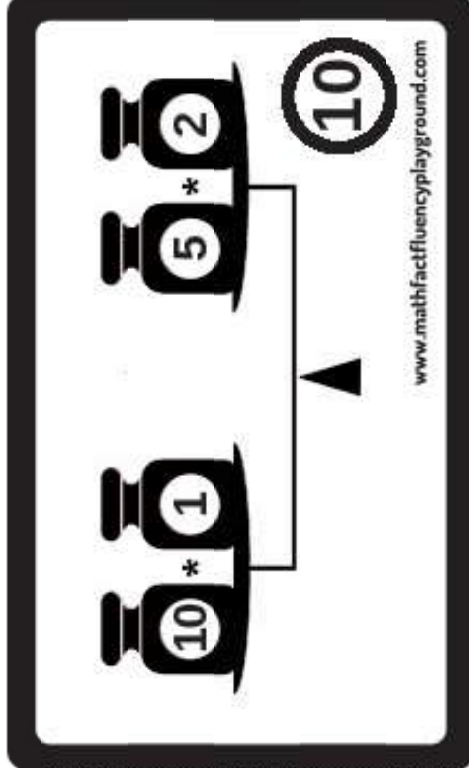


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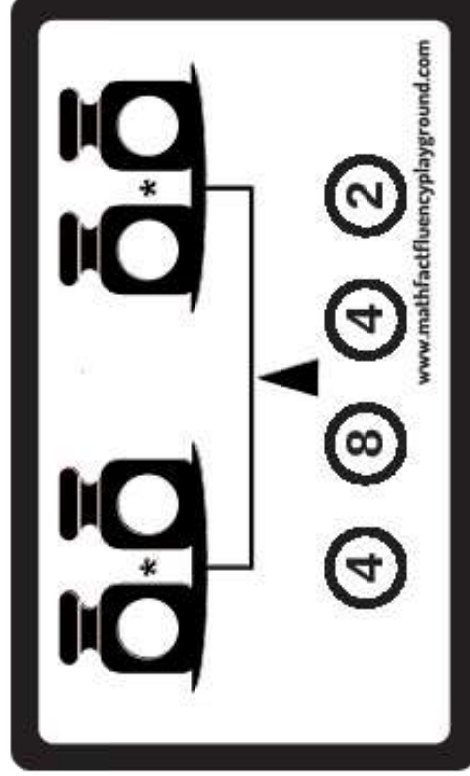
BALANCE PUZZLE



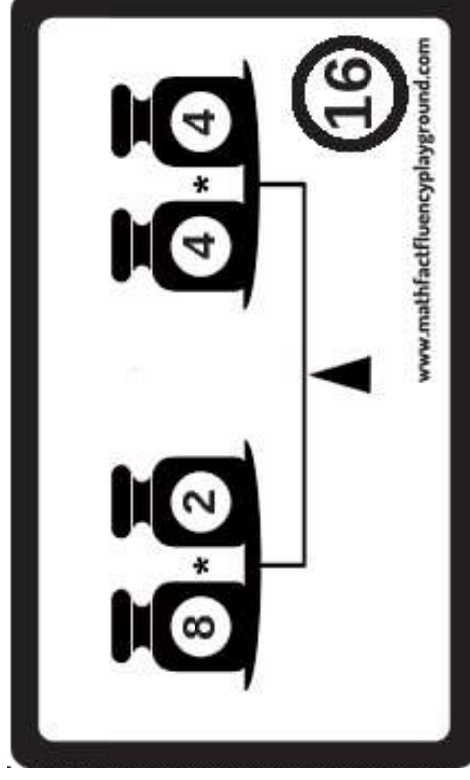
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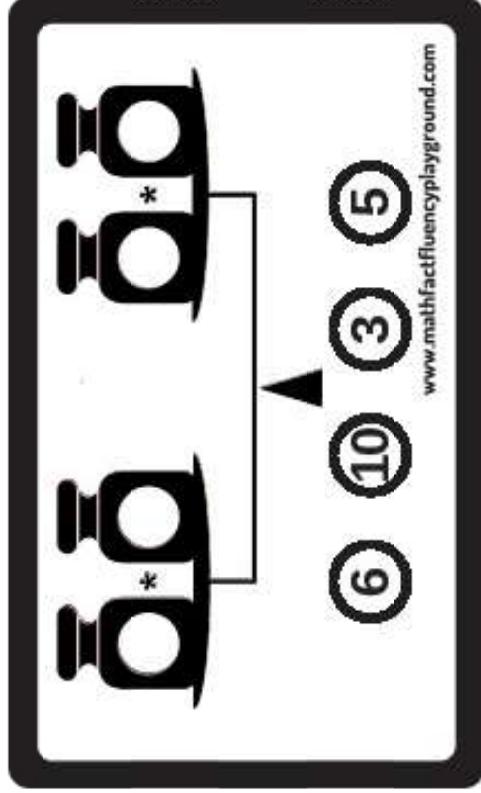


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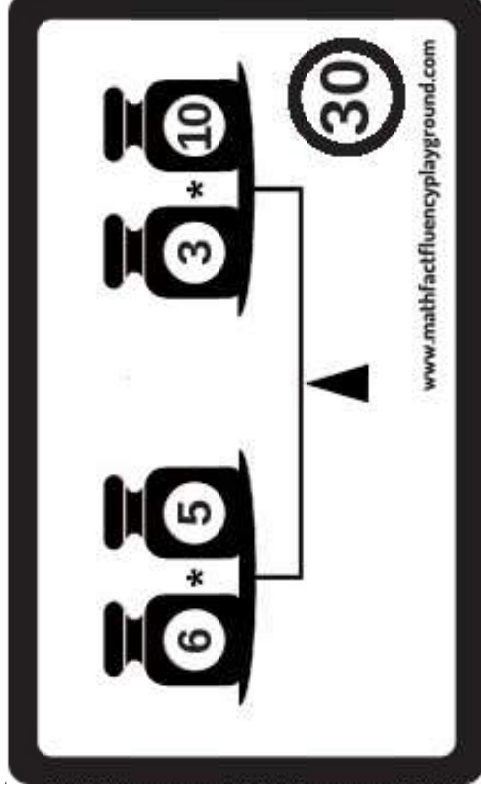


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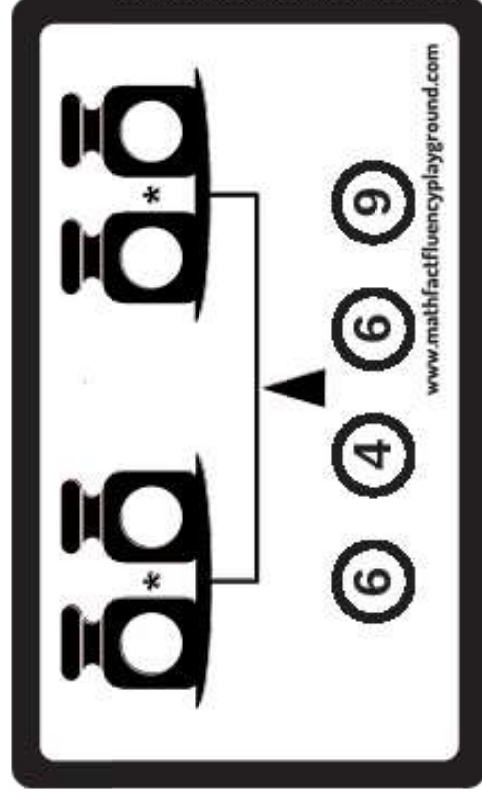
BALANCE PUZZLE



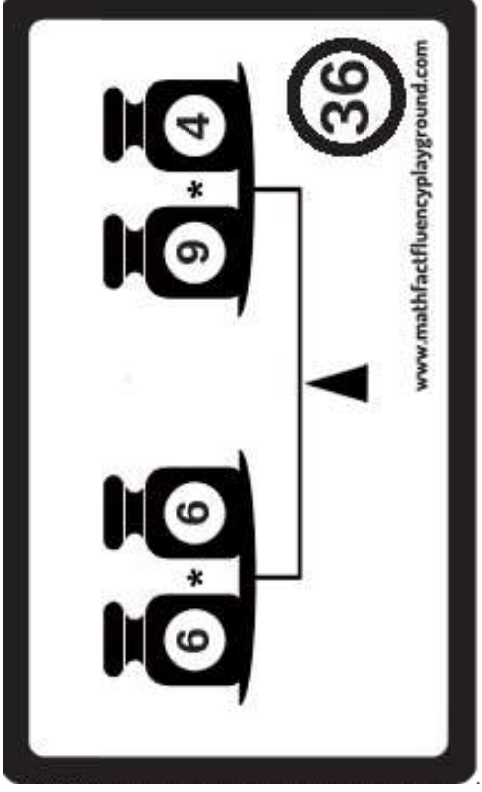
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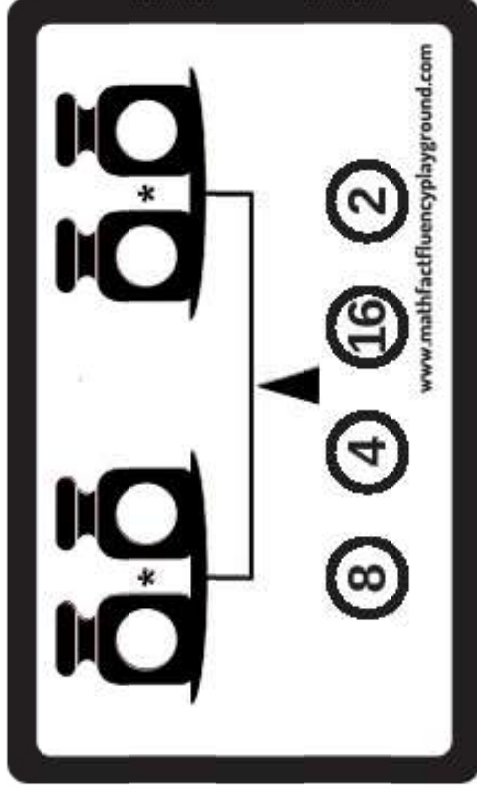


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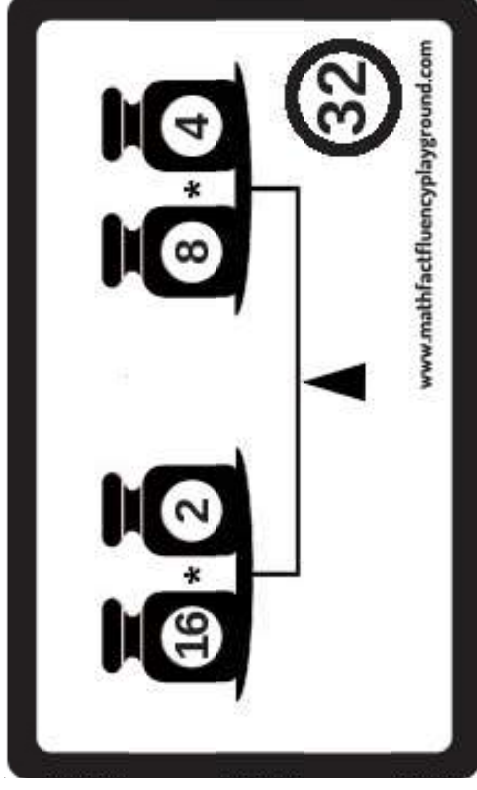


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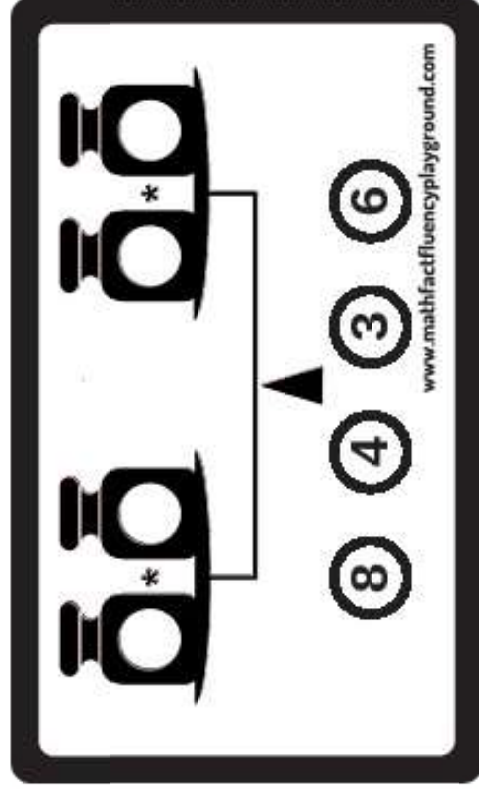
BALANCE PUZZLE



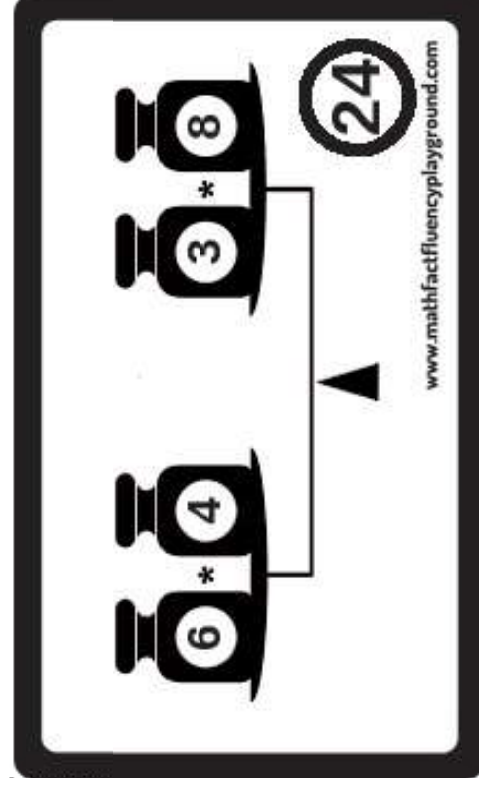
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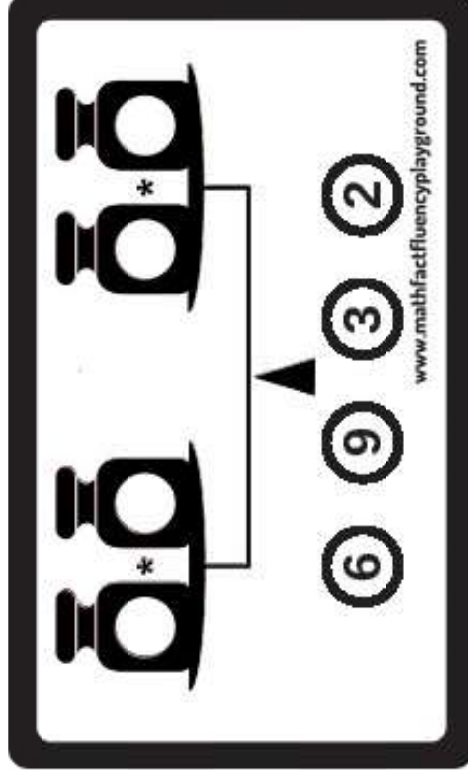


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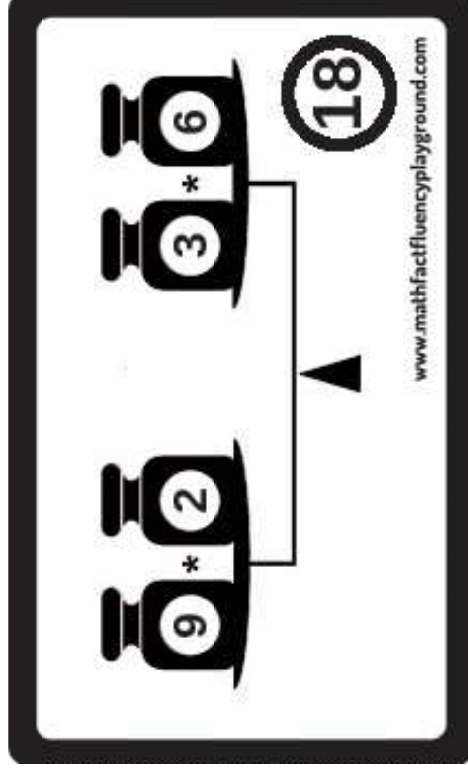


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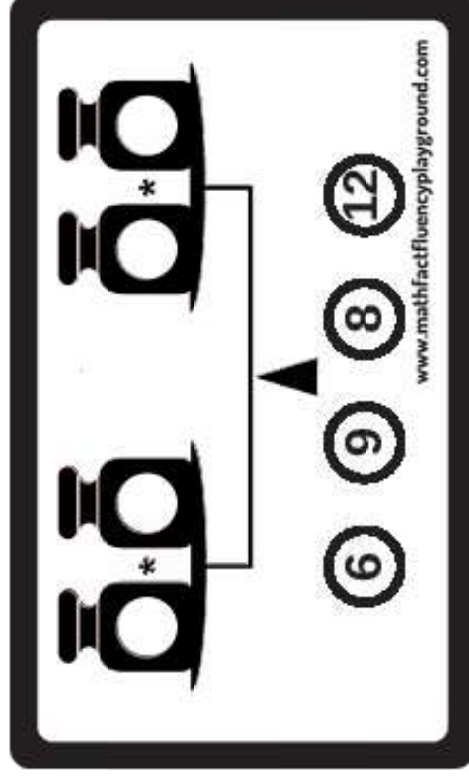
BALANCE PUZZLE



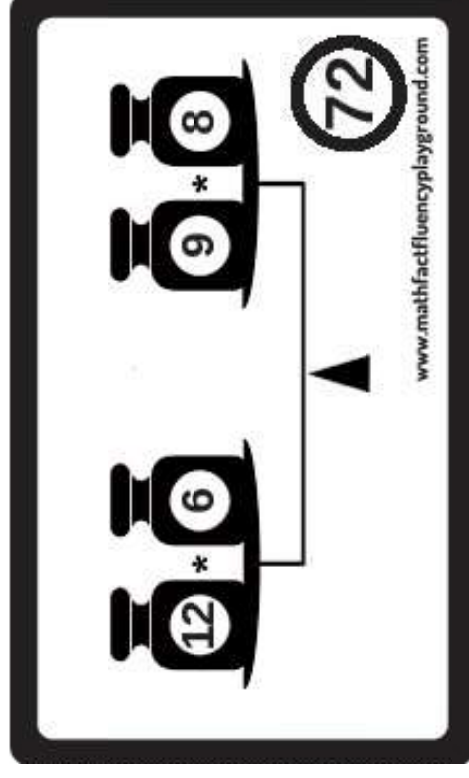
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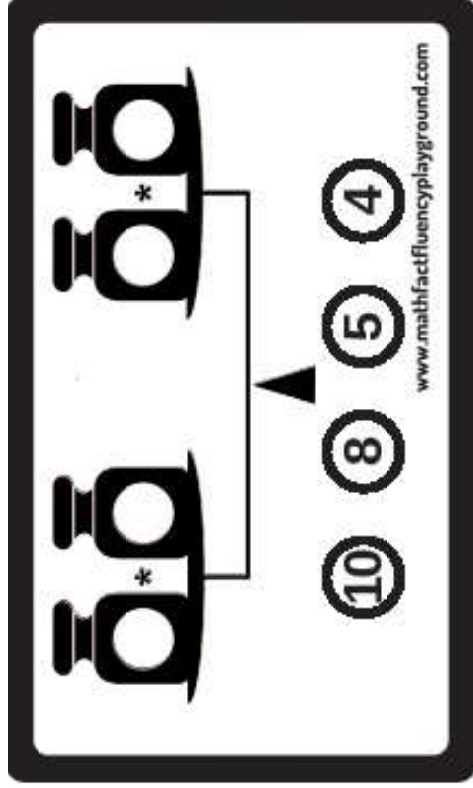


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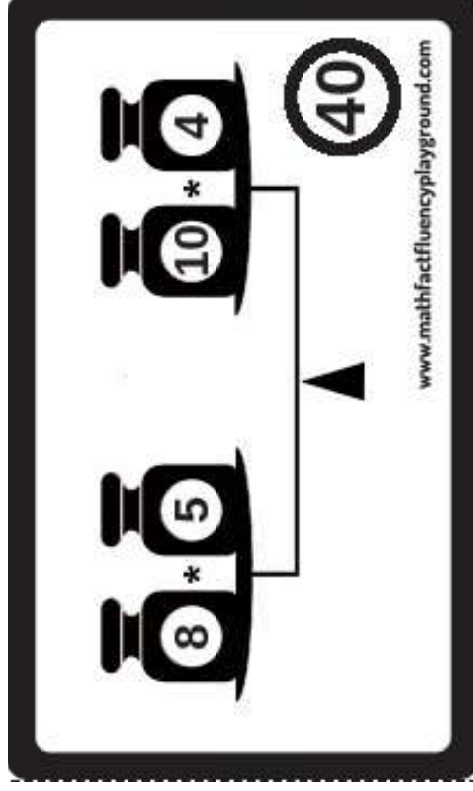


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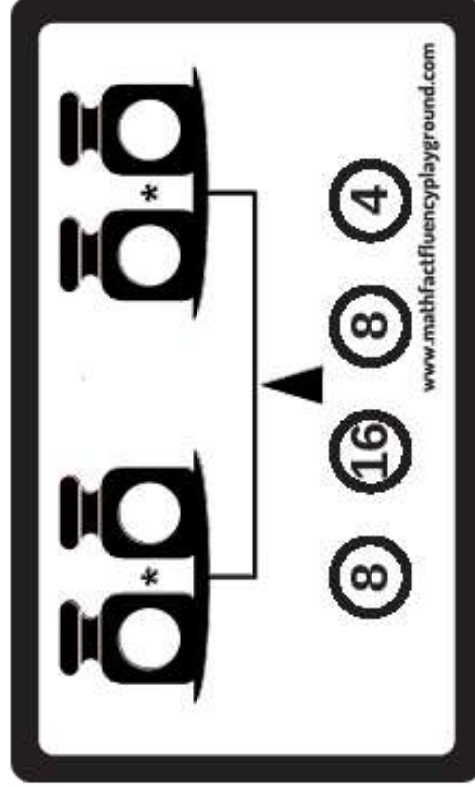
BALANCE PUZZLE



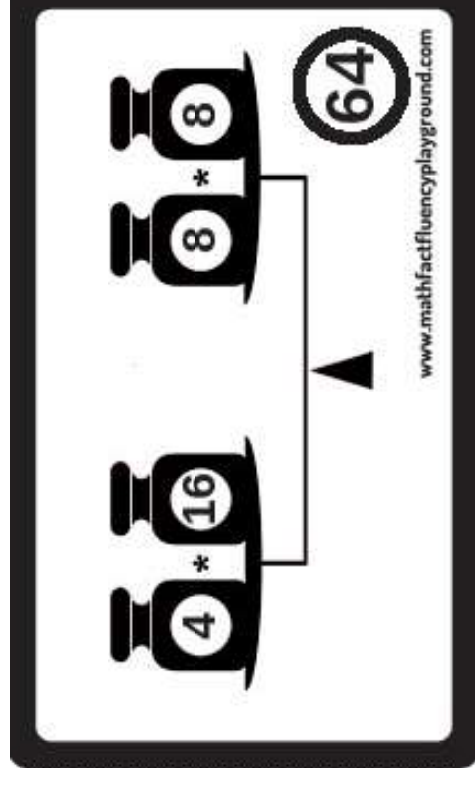
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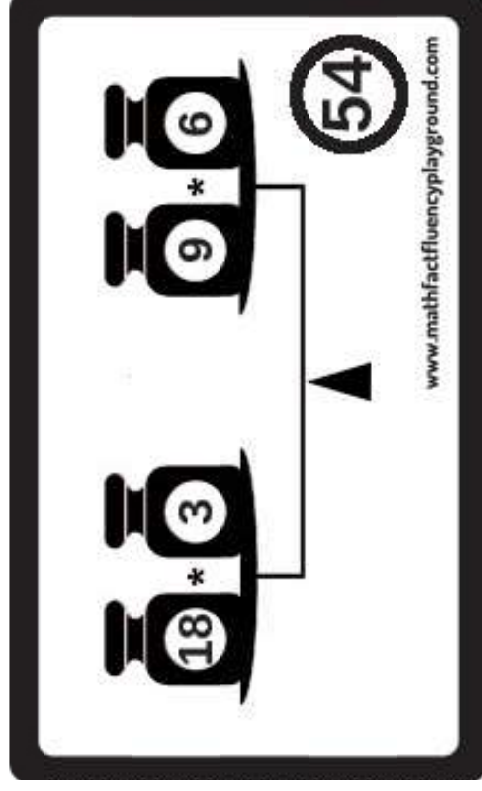
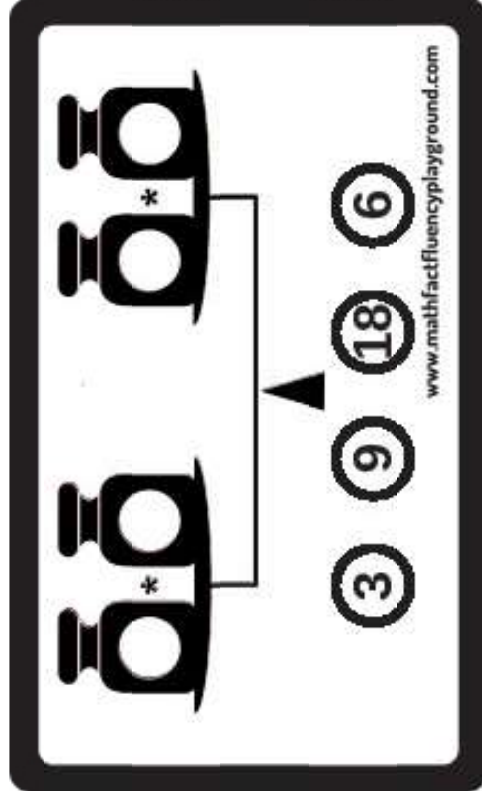


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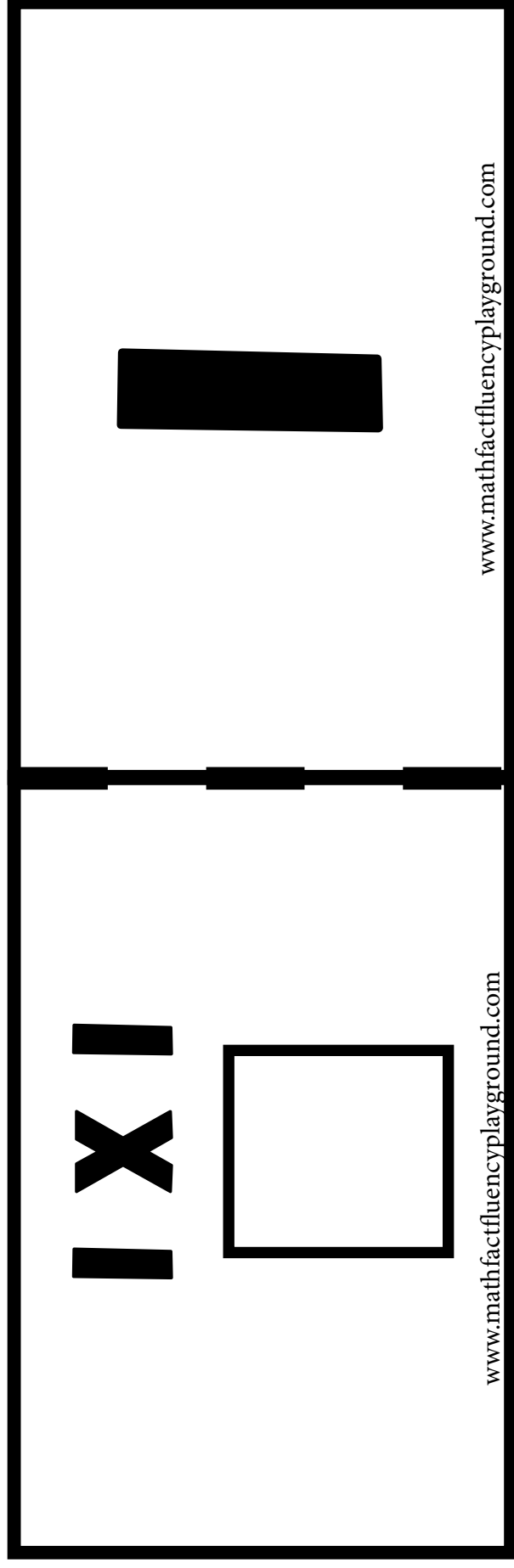
BALANCE PUZZLE



SQUARE NUMBERS

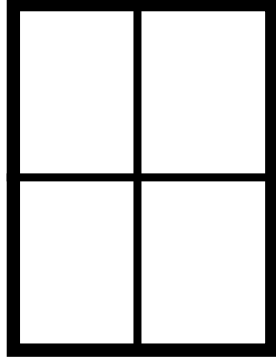
Square Numbers

It is important for students to understand square numbers. They should explore square numbers in a variety of ways. Students need to understand and be able to explain that when you multiply a whole number by itself, that you get a square number. (Really it is an integer positive, negative or zero, but in upper elementary we are only concerned with whole numbers).



SQUARE NUMBERS

2 X 2

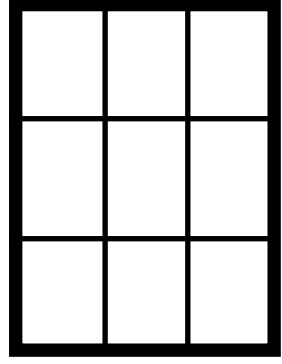


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3 X 3



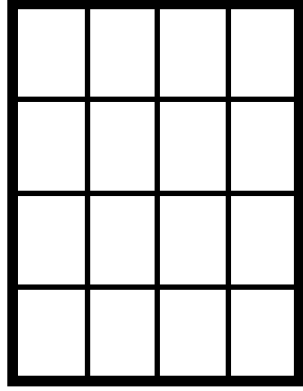
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SQUARE NUMBERS

4 X 4

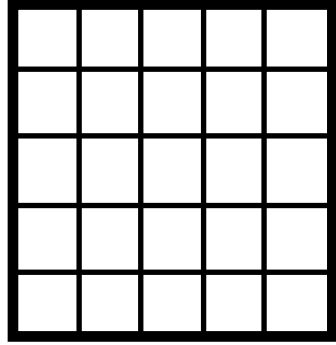


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5 X 5



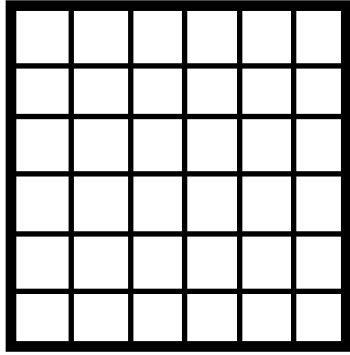
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SQUARE NUMBERS

6 X 6

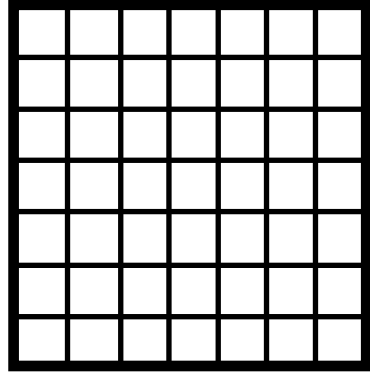


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7 X 7



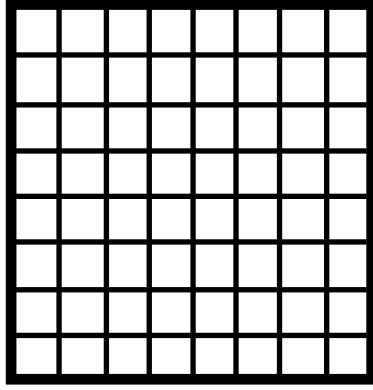
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SQUARE NUMBERS

8 X 8

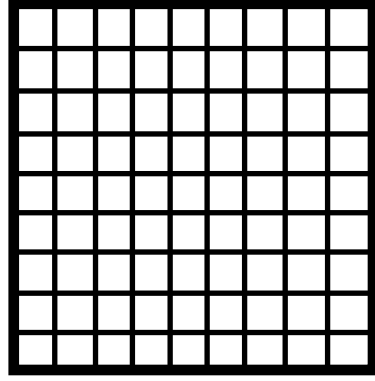


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9 X 9



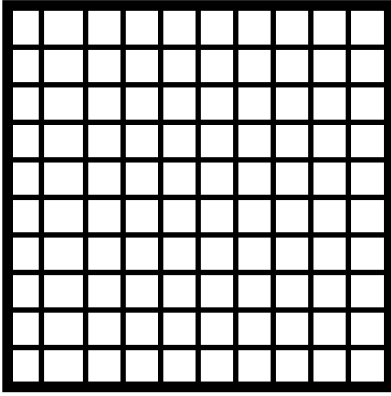
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SQUARE NUMBERS

10 X 10

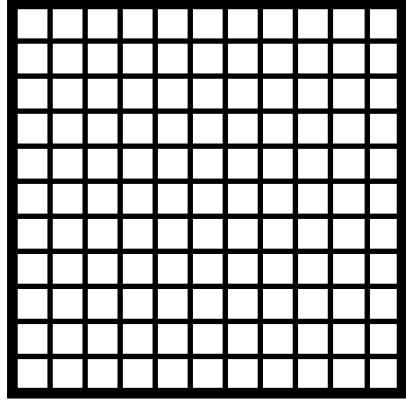


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100

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11 X 11



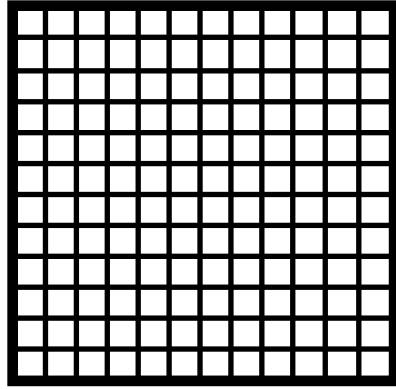
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121

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SQUARE NUMBERS

12 X 12



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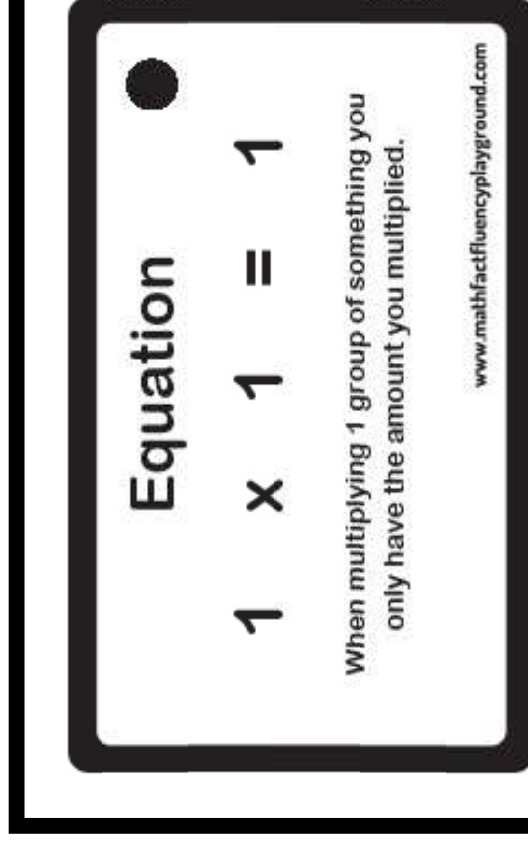
144

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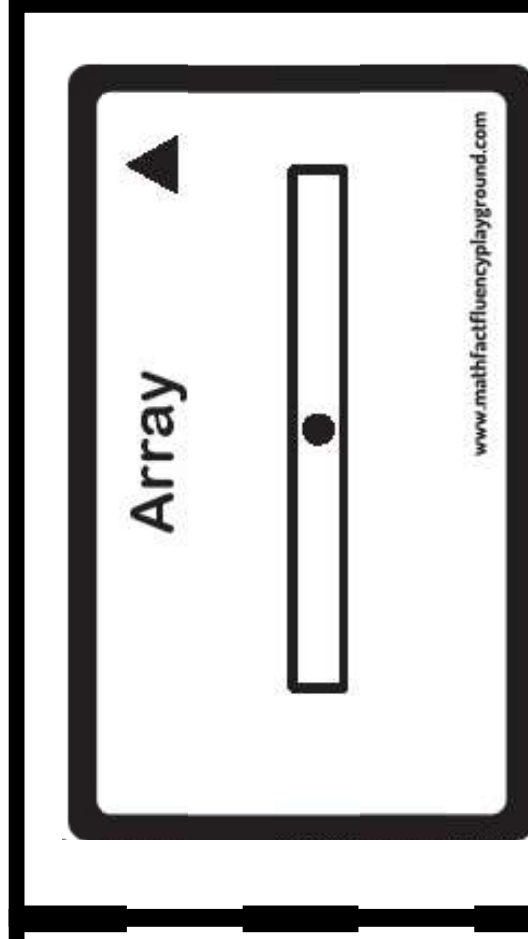
CONCENTRATION GAME

Concentration Game

These are great cards that can be used in a variety of ways to practice various representations of concentration. Students can play matching just two cards, three cards or the entire set. The cards are coded with shapes so that it is easy to separate them into different decks. Students can play battle, match or concentration games.



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CONCENTRATION GAME

Equal Groups



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 1 is 1

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Commutative Property ▴

$$(1 \times 1) = (1 \times 1)$$

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Answer

1

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CONCENTRATION GAME

Equation ●

$$1 \times 2 = 2$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array ▲



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Equal Groups ♦



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 2 is 2

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CONCENTRATION GAME

Commutative Property 

$$(1 \times 2) = (2 \times 1)$$

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Answer 

2

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Equation 

$$1 \times 3 = 3$$

When multiplying 1 group of something you only have the amount you multiplied.

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CONCENTRATION GAME

Equal Groups



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 3 is 3

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Commutative Property



$$(1 \times 3) = (3 \times 1)$$

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Answer



3

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CONCENTRATION GAME

Equation ●

$$1 \times 4 = 4$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array ▲



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Equal Groups ◆



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 4 is 4

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CONCENTRATION GAME

Commutative Property 

$$(1 \times 4) = (4 \times 1)$$

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Answer 

4

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Equation 

$$1 \times 5 = 5$$

When multiplying 1 group of something you only have the amount you multiplied.

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CONCENTRATION GAME

Equal Groups



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 5 is 5

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Commutative Property



$$(1 \times 5) = (5 \times 1)$$

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Answer

5

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CONCENTRATION GAME

Equation ●

$$1 \times 6 = 6$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array ▲



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Equal Groups ◆



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 6 is 6

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CONCENTRATION GAME

Commutative Property 

$$(1 \times 6) = (6 \times 1)$$

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Answer 

6

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Equation 

$$1 \times 7 = 7$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array 



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CONCENTRATION GAME

Equal Groups



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 7 is 7

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Commutative Property ▴

$$(1 \times 7) = (7 \times 1)$$

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Answer ■

7

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CONCENTRATION GAME

Equation ●

$$1 \times 8 = 8$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array ▲



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Equal Groups ◆



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 8 is 8

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CONCENTRATION GAME

Commutative Property 

$$(1 \times 8) = (8 \times 1)$$

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Answer 

8

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Equation 

$$1 \times 9 = 9$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array 



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CONCENTRATION GAME

Equal Groups



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 9 is 9

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Commutative Property



$$(1 \times 9) = (9 \times 1)$$

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Answer



9

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CONCENTRATION GAME

Equation ●

$$1 \times 10 = 10$$

When multiplying 1 group of something you only have the amount you multiplied.

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Array ▲



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Equal Groups ◆



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Repeated Addition ★

When you multiply by 1 you only have that group!

1 group of 10 is 10

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CONCENTRATION GAME

Commutative Property 

$$(1 \times 10) = (10 \times 1)$$

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Answer 

10

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Equation 

$$2 \times 1 = 2$$

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Array 



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CONCENTRATION GAME

Equal Groups



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Addition Sentence ★

$$1 + 1$$

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Commutative Property



$$(2 \times 1) = (1 \times 2)$$

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Answer



2

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CONCENTRATION GAME

Equation ●

$$2 \times 2 = 4$$

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Array ▲



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Equal Groups ◆



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Addition Sentence ★

$$2 + 2$$

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CONCENTRATION GAME

Commutative Property 

$$(2 \times 2) = (2 \times 2)$$

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Answer 

4

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Equation 

$$2 \times 3 = 6$$

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Array 



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CONCENTRATION GAME

Equal Groups



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Addition Sentence ★

$$3 + 3$$

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Commutative Property



$$(2 \times 3) = (3 \times 2)$$

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Answer



6

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CONCENTRATION GAME

Equation ●

$$2 \times 4 = 8$$

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Array ▲



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Equal Groups ◆



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Addition Sentence ★

$$4 + 4$$

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CONCENTRATION GAME

Commutative Property 

$$(2 \times 4) = (4 \times 2)$$

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Answer 

8

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Equation 

$$2 \times 5 = 10$$

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Array 



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CONCENTRATION GAME

Equal Groups



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Addition Sentence ★

$$5 + 5$$

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Commutative Property



$$(2 \times 5) = (5 \times 2)$$

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Answer



10

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CONCENTRATION GAME

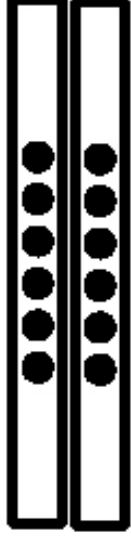
Equation ●

$$2 \times 6 = 12$$

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Array ▲



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Equal Groups ◆



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Addition Sentence ★

$$6 + 6$$

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CONCENTRATION GAME

Commutative Property 

$$(2 \times 6) = (6 \times 2)$$

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Answer 

12

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Equation 

$$2 \times 7 = 14$$

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Array 



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CONCENTRATION GAME

Equal Groups



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Addition Sentence ★

$$7 + 7$$

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Commutative Property



$$(2 \times 7) = (7 \times 2)$$

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Answer



14

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CONCENTRATION GAME

Equation ●

$$2 \times 8 = 16$$

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Array ▲



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Equal Groups ◆



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Addition Sentence ★

$$8 + 8$$

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CONCENTRATION GAME

Commutative Property 

$$(2 \times 8) = (8 \times 2)$$

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Answer 

16

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Equation 

$$2 \times 9 = 18$$

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Array 




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CONCENTRATION GAME

Equal Groups 




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Addition Sentence ★


$$9 + 9$$

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Commutative Property 

$$(2 \times 9) = (9 \times 2)$$

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Answer 

$$18$$

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CONCENTRATION GAME

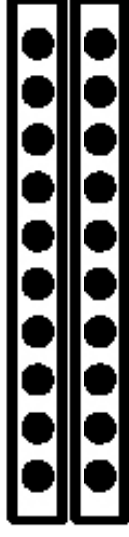
Equation ●

$$2 \times 10 = 20$$

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Array ▲



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Equal Groups ◆



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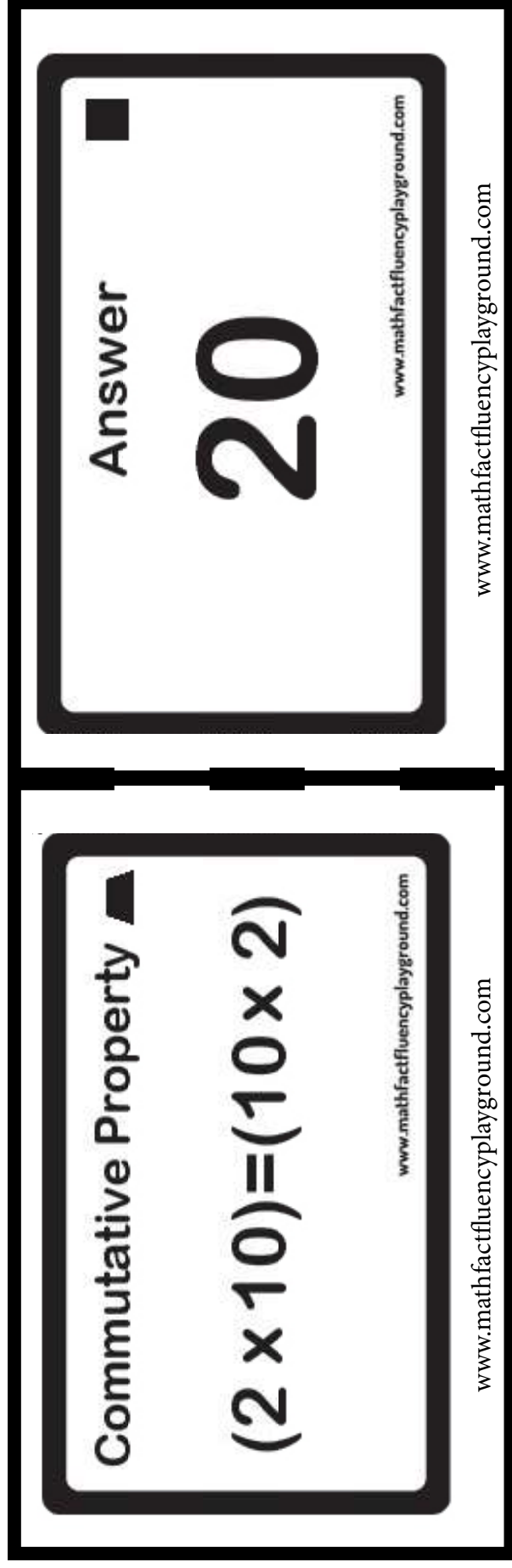
Addition Sentence ★

$$10 + 10$$

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www.mathfactfluencyplayground.com

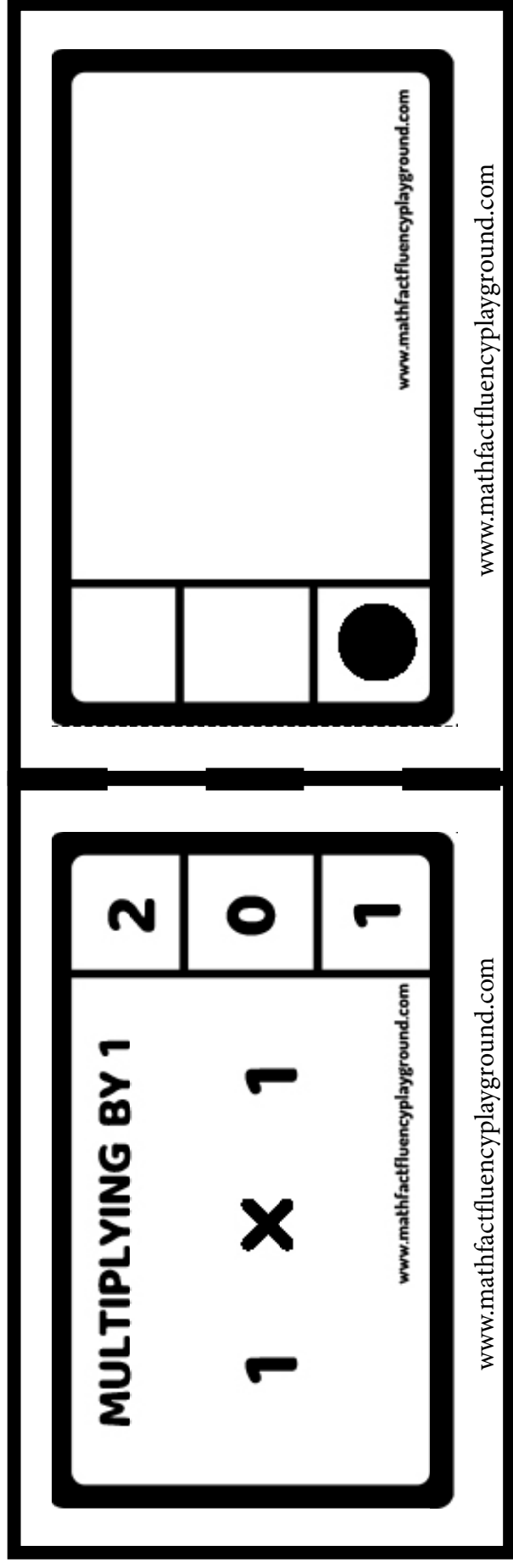
CONCENTRATION GAME



CLIP IT

Clip It

These are great scaffolded cards. They are bridging into because students are selecting the correct answer. These cards would come before playing with a traditional deck.

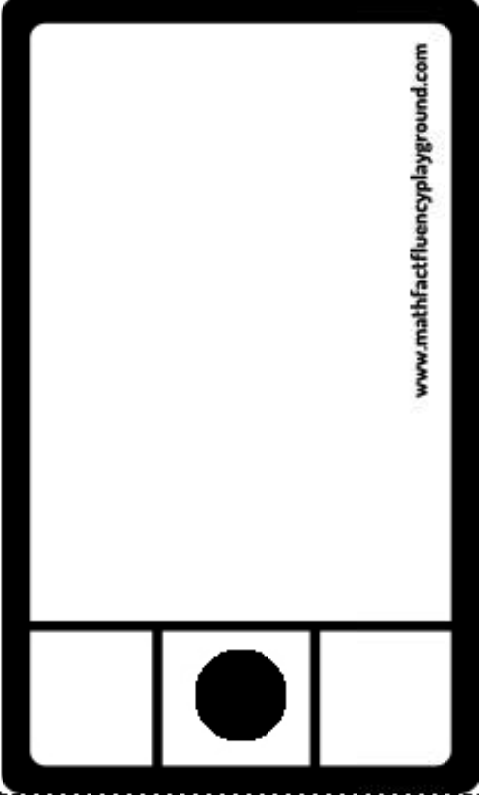


CLIP IT

MULTIPLYING BY 1		6
2	\times	1
1	\times	2

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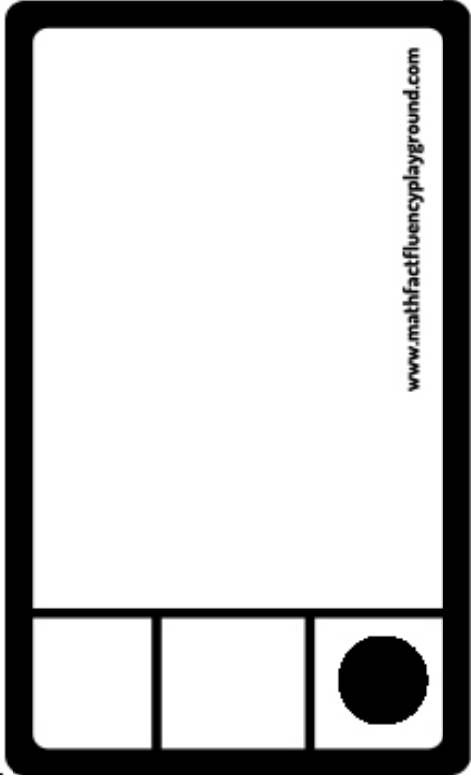
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MULTIPLYING BY 1		7
3	\times	1
1	\times	3

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CLIP IT

MULTIPLYING BY 1		2
4	\times	1
1	\times	4

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	●	

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MULTIPLYING BY 1		7
5	\times	1
1	\times	5

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	●	

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CLIP IT

MULTIPLYING BY 1 <div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> 6 × 1 </div> <div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> 1 × 6 </div>			2	6	4
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MULTIPLYING BY 1 <div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> 7 × 1 </div> <div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> 1 × 7 </div>			7	3	5
--	--	--	---	---	---

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CLIP IT

MULTIPLYING BY 1		5
8	×	1
1	×	8

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	●	
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MULTIPLYING BY 1		7
9	×	1
1	×	9

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		●
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CLIP IT

MULTIPLYING BY 1		10
10	$\times 1$	
1	$\times 10$	

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MULTIPLYING BY 2		3
1	$\times 2$	
2	$\times 1$	

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CLIP IT

MULTIPLYING BY 2		8
2	$\times 2$	6
		4

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MULTIPLYING BY 2		6
3	$\times 2$	5
2	$\times 3$	9

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CLIP IT

MULTIPLYING BY 2		9
4	\times	2
2	\times	4

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	●	
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MULTIPLYING BY 2		8
5	\times	2
2	\times	5

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		●
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CLIP IT

MULTIPLYING BY 2		12
6	$\times 2$	
2	$\times 6$	

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MULTIPLYING BY 2		15
7	$\times 2$	
2	$\times 7$	

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CLIP IT

MULTIPLYING BY 2		14
8	$\times 2$	
2	$\times 8$	

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MULTIPLYING BY 2		15
9	$\times 2$	
2	$\times 9$	

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CLIP IT

MULTIPLYING BY 2 10×2 2×10		20 18 22
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MULTIPLYING BY 3 1×3 3×1		3 9 5
www.mathfactfluencyplayground.com		www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 3		9
2	×	3
3	×	2

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	●	

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MULTIPLYING BY 3		8
3	×	3
		9

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		●

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CLIP IT

MULTIPLYING BY 3		10
4	$\times 3$	
3	$\times 4$	

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MULTIPLYING BY 3		15
5	$\times 3$	
3	$\times 5$	

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CLIP IT

MULTIPLYING BY 3		15
6	×	3
3	×	6

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MULTIPLYING BY 3		23
7	×	3
3	×	7

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CLIP IT

MULTIPLYING BY 3		24
8	$\times 3$	
3	$\times 8$	

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MULTIPLYING BY 3		23
9	$\times 3$	
3	$\times 9$	

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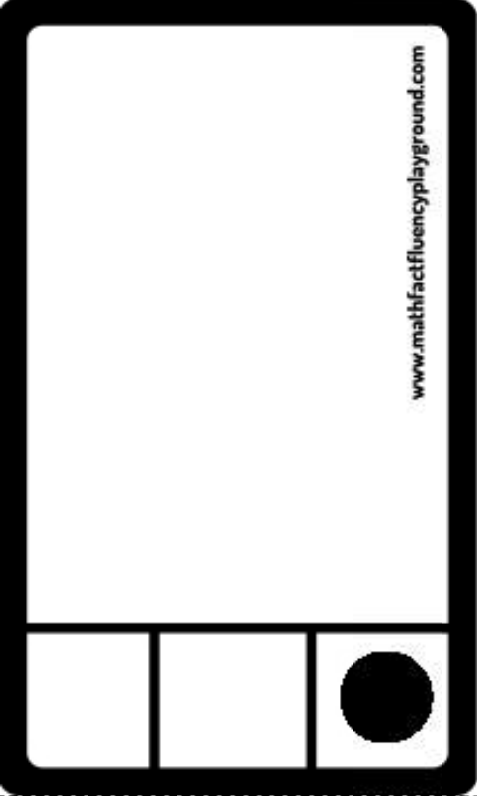
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CLIP IT

MULTIPLYING BY 3		28
10	$\times 3$	25
3	$\times 10$	30

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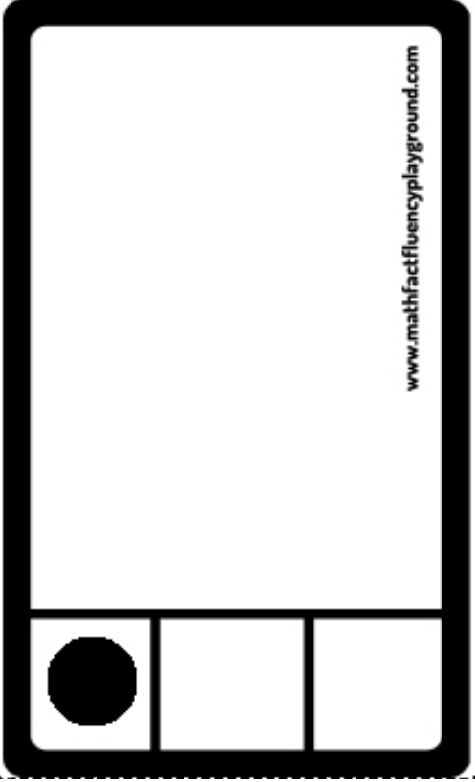


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MULTIPLYING BY 4		4
1	$\times 4$	8
4	$\times 1$	6

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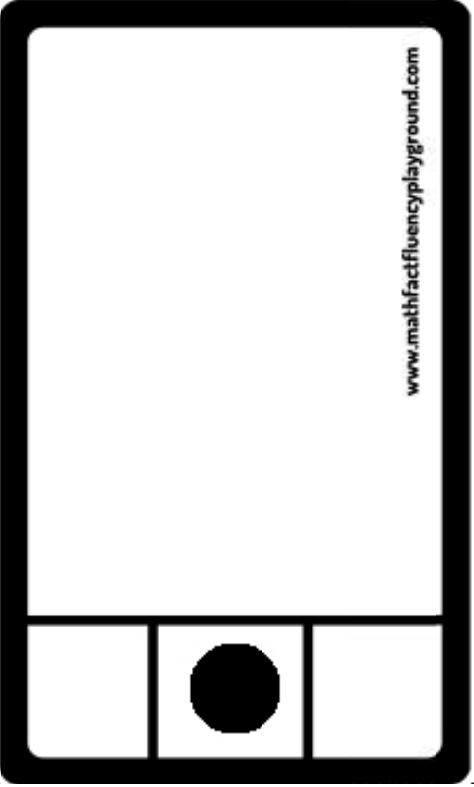
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CLIP IT

MULTIPLYING BY 4		12
2	×	4
4	×	2

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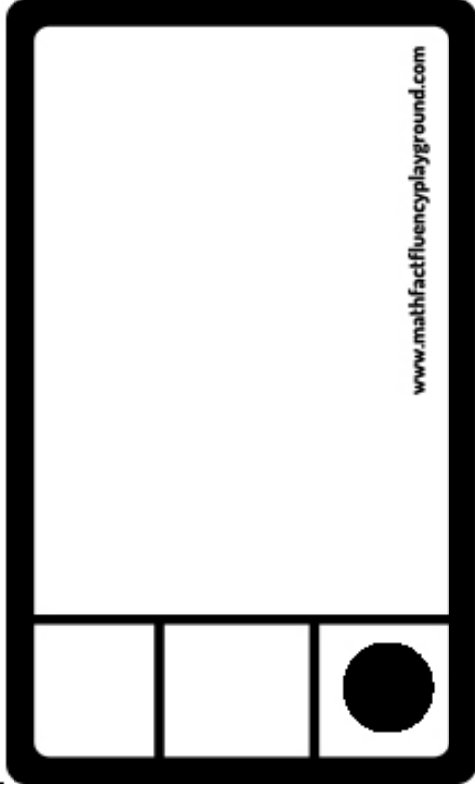
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MULTIPLYING BY 4		14
3	×	4
4	×	3

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CLIP IT

MULTIPLYING BY 4	16
	12
	18

4 × 4

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MULTIPLYING BY 4	18
	20
	16

5 × 4

4 × 5

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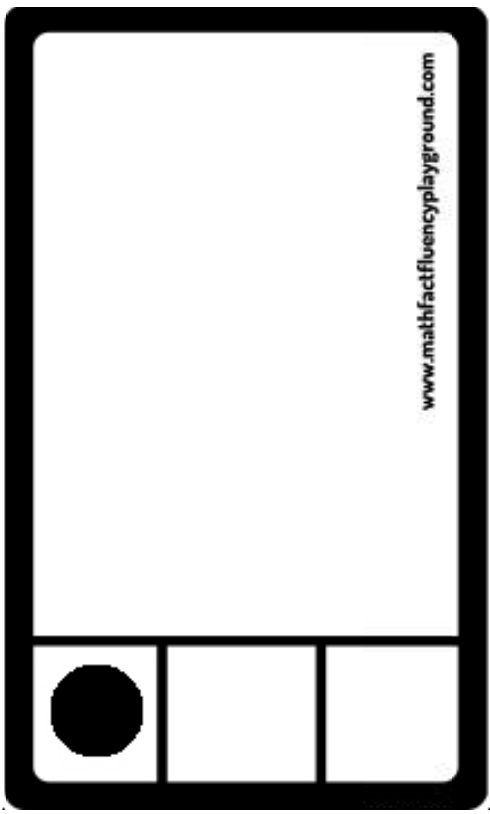
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CLIP IT

MULTIPLYING BY 4		24
6	$\times 4$	22
4	$\times 6$	20

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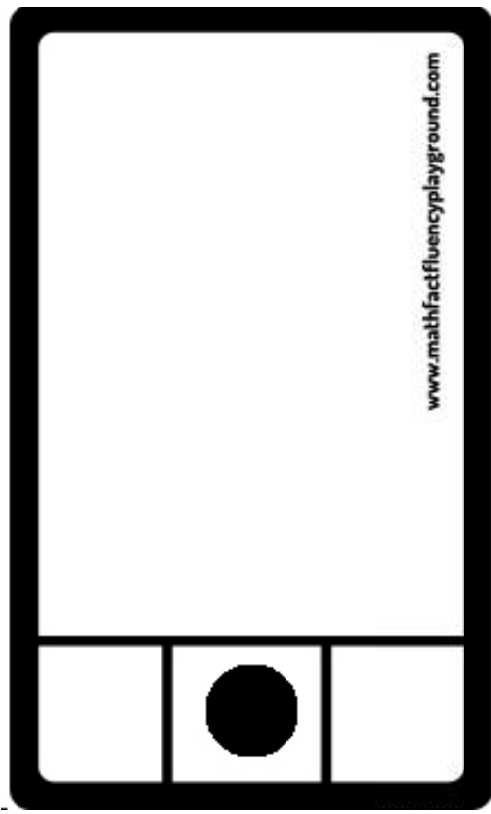


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MULTIPLYING BY 4		26
7	$\times 4$	28
4	$\times 7$	32

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CLIP IT

MULTIPLYING BY 4		30
8	×	4
4	×	8

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MULTIPLYING BY 4		36
9	×	4
4	×	9

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CLIP IT

MULTIPLYING BY 4		34
10	X 4	40
4	X 10	38

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MULTIPLYING BY 5		5
1	X 5	3
5	X 1	6

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CLIP IT

MULTIPLYING BY 5		14
2	$\times 5$	
5	$\times 2$	

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MULTIPLYING BY 5		12
3	$\times 5$	
5	$\times 3$	

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CLIP IT

MULTIPLYING BY 5		20
4	$\times 5$	22
5	$\times 4$	25

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MULTIPLYING BY 5		24
5	$\times 5$	25
		27

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CLIP IT

MULTIPLYING BY 5		25
6	$\times 5$	36
5	$\times 6$	30

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MULTIPLYING BY 5		35
7	$\times 5$	45
5	$\times 7$	40

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CLIP IT

MULTIPLYING BY 5		36
8	$\times 5$	40
5	$\times 8$	42

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MULTIPLYING BY 5		28
9	$\times 5$	35
5	$\times 9$	45

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CLIP IT

MULTIPLYING BY 5		45
10	$\times 5$	50
5	$\times 10$	40

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	●	

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MULTIPLYING BY 6		6
1	$\times 6$	12
6	$\times 1$	10

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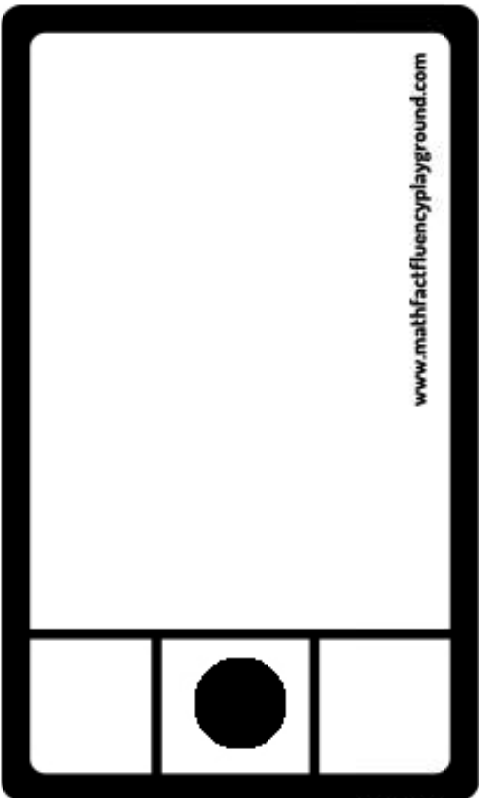
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CLIP IT

MULTIPLYING BY 6		18
2	$\times 6$	12
6	$\times 2$	6

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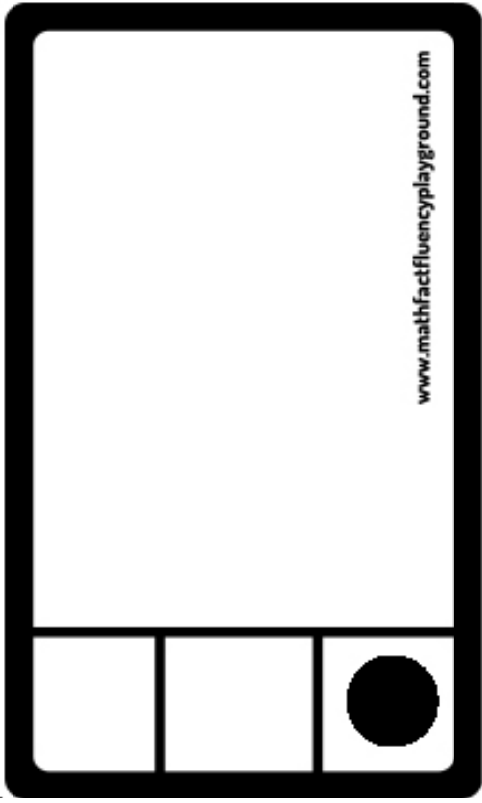
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MULTIPLYING BY 6		22
3	$\times 6$	20
6	$\times 3$	18

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CLIP IT

MULTIPLYING BY 6		24
4	$\times 6$	
6	$\times 4$	

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MULTIPLYING BY 6		36
5	$\times 6$	
6	$\times 5$	

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CLIP IT

MULTIPLYING BY 6		36
6	\times 6	30
		42

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MULTIPLYING BY 6		36
7	\times 6	40
6	\times 7	42

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CLIP IT

MULTIPLYING BY 6		36
8	$\times 6$	48
6	$\times 8$	30

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MULTIPLYING BY 6		54
9	$\times 6$	48
6	$\times 9$	60

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CLIP IT

MULTIPLYING BY 6

6	\times	10
10	\times	6

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MULTIPLYING BY 7

1	\times	7
7	\times	1

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www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 7		
2	\times	7
7	\times	2
<small>www.mathfactfluencyplayground.com</small>		
14	20	28

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MULTIPLYING BY 7		
3	\times	7
7	\times	3
<small>www.mathfactfluencyplayground.com</small>		
14	28	21

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CLIP IT

MULTIPLYING BY 7		35
4	$\times 7$	28
7	$\times 4$	24

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MULTIPLYING BY 7		35
5	$\times 7$	28
7	$\times 5$	32

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●		
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CLIP IT

MULTIPLYING BY 7		35
6	$\times 7$	42
7	$\times 6$	21

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MULTIPLYING BY 7		56
7	$\times 7$	42
		49

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CLIP IT

MULTIPLYING BY 7		63
8	$\times 7$	56
7	$\times 8$	49

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MULTIPLYING BY 7		63
9	$\times 7$	49
7	$\times 9$	70

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CLIP IT

MULTIPLYING BY 7		56
10	$\times 7$	63
7	$\times 10$	70

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MULTIPLYING BY 8		8
1	$\times 8$	16
8	$\times 1$	24

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CLIP IT

MULTIPLYING BY 8		24
2	$\times 8$	16
8	$\times 2$	8

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MULTIPLYING BY 8		32
3	$\times 8$	16
8	$\times 3$	24

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CLIP IT

MULTIPLYING BY 8		24
4	$\times 8$	32
8	$\times 4$	40

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MULTIPLYING BY 8		56
7	$\times 8$	64
8	$\times 7$	48

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CLIP IT

MULTIPLYING BY 8		48
8	\times	8
		56

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MULTIPLYING BY 8		40
5	\times	8
8	\times	5
		16

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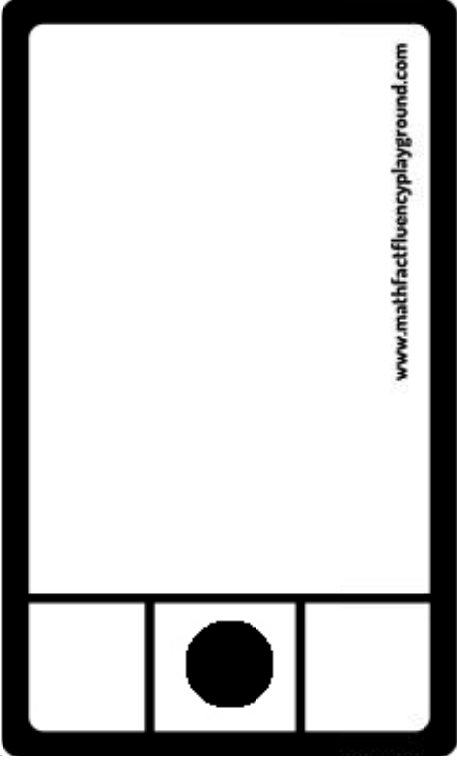
www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 8		40
6	$\times 8$	48
8	$\times 6$	32

www.mathfactfluencyplayground.com

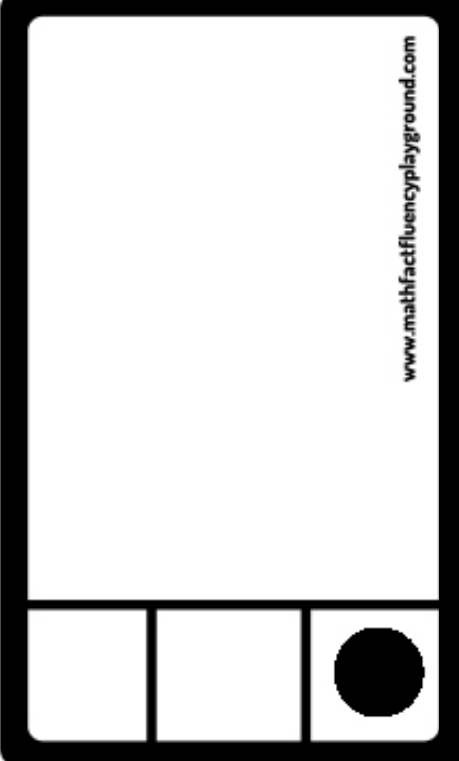
www.mathfactfluencyplayground.com



MULTIPLYING BY 8		80
9	$\times 8$	64
8	$\times 9$	72

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CLIP IT

MULTIPLYING BY 8		80
10	$\times 8$	56
8	$\times 10$	64

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MULTIPLYING BY 9		27
1	$\times 9$	9
9	$\times 1$	18

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CLIP IT

MULTIPLYING BY 9		18
2	×	9
9	×	2

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MULTIPLYING BY 9		45
5	×	9
9	×	5

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CLIP IT

MULTIPLYING BY 9		27
6	$\times 9$	54
9	$\times 6$	36

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MULTIPLYING BY 9		27
3	$\times 9$	36
9	$\times 3$	18

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CLIP IT

MULTIPLYING BY 9		18
4	×	9
9	×	4

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MULTIPLYING BY 9		90
9	×	9

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CLIP IT

MULTIPLYING BY 9		90
10	X 9	85
9	X 10	81

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MULTIPLYING BY 9		72
7	X 9	54
9	X 7	63

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CLIP IT

MULTIPLYING BY 9		72
8	$\times 9$	54
9	$\times 8$	81

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MULTIPLYING BY 10		20
1	$\times 10$	10
10	$\times 1$	30

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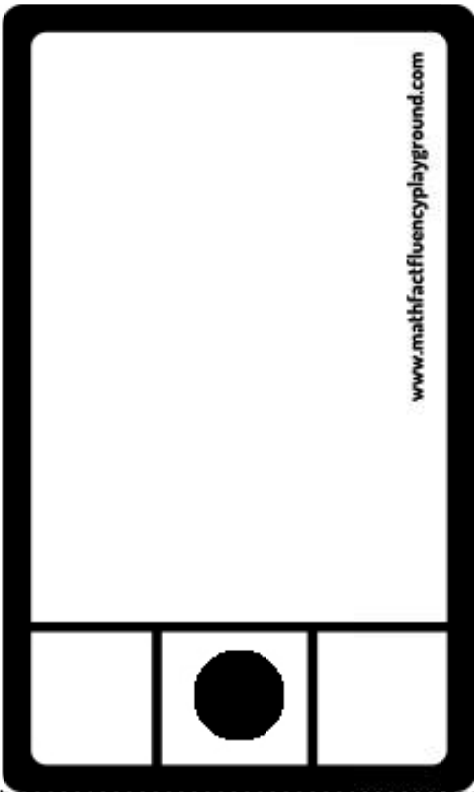
www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 10		30
2	$\times 10$	20
10	$\times 2$	40

www.mathfactfluencyplayground.com

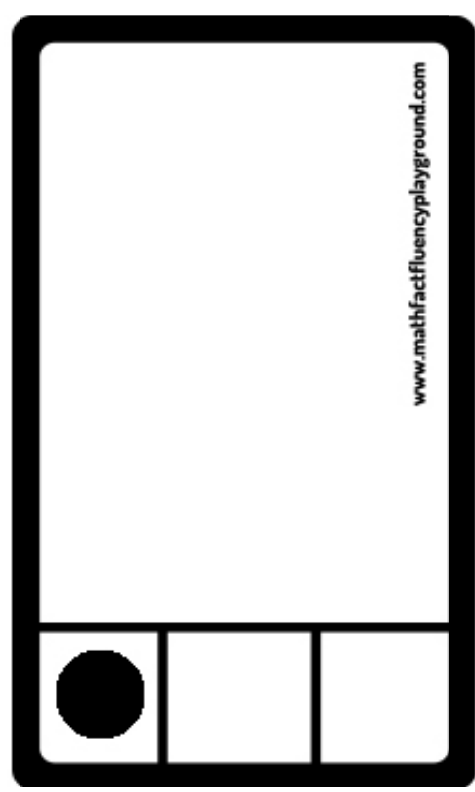
www.mathfactfluencyplayground.com



MULTIPLYING BY 10		30
3	$\times 10$	40
10	$\times 3$	20

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CLIP IT

MULTIPLYING BY 10		50
4	$\times 10$	
10	$\times 4$	

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MULTIPLYING BY 10		80
7	$\times 10$	
10	$\times 7$	

www.mathfactfluencyplayground.com

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www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 10		90
8	$\times 10$	
10	$\times 8$	

www.mathfactfluencyplayground.com

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	●	

www.mathfactfluencyplayground.com

MULTIPLYING BY 10		50
5	$\times 10$	
10	$\times 5$	

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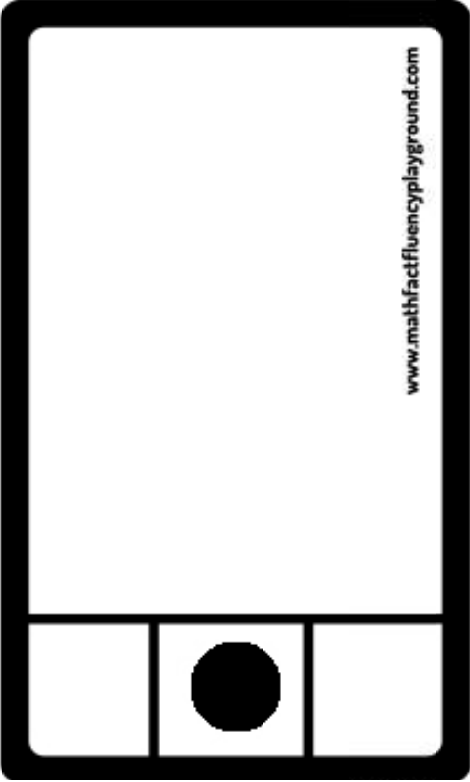
www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 10		70
6	$\times 10$	
10	$\times 6$	

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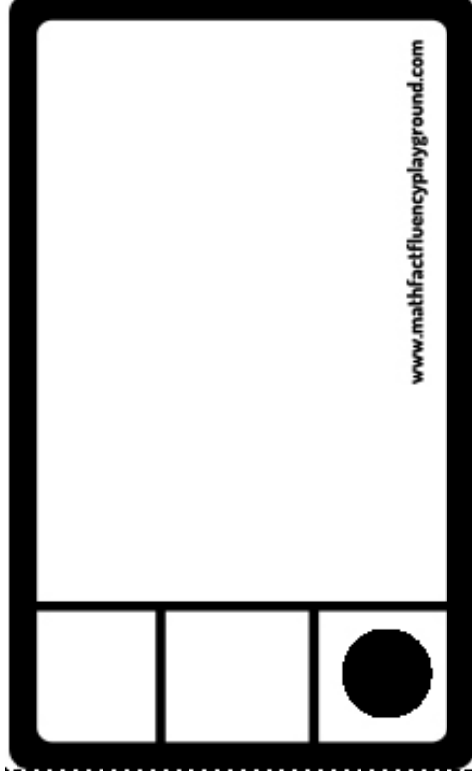
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MULTIPLYING BY 10		100
9	$\times 10$	
10	$\times 9$	

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www.mathfactfluencyplayground.com



CLIP IT

MULTIPLYING BY 10		80
10	\times	10
		90

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	●	

www.mathfactfluencyplayground.com

MULTIPLYING BY 11		33
1	\times	11
11	\times	1
		22

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		www.mathfactfluencyplayground.com
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CLIP IT

MULTIPLYING BY 11		22
2	×	11
11	×	2

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www.mathfactfluencyplayground.com

MULTIPLYING BY 11		44
3	×	11
11	×	3

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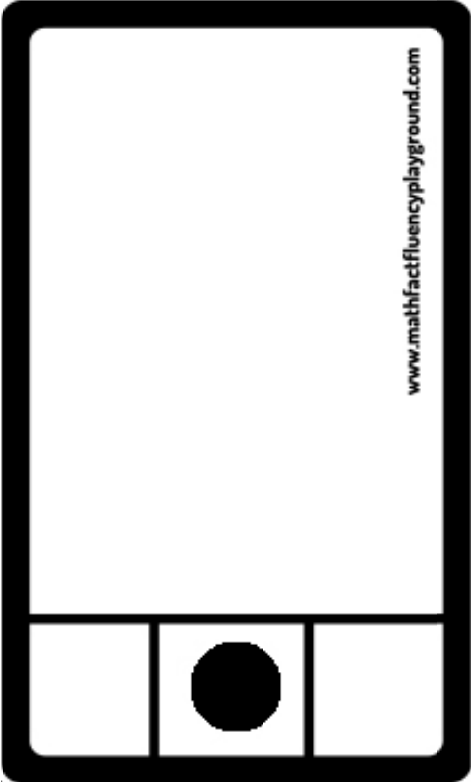
www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 11		33
4	$\times 11$	44
11	$\times 4$	11

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www.mathfactfluencyplayground.com

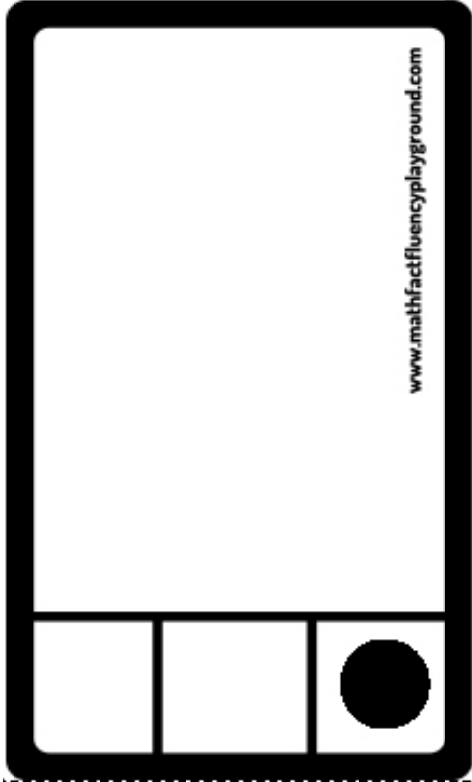


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MULTIPLYING BY 11		66
5	$\times 11$	44
11	$\times 5$	55

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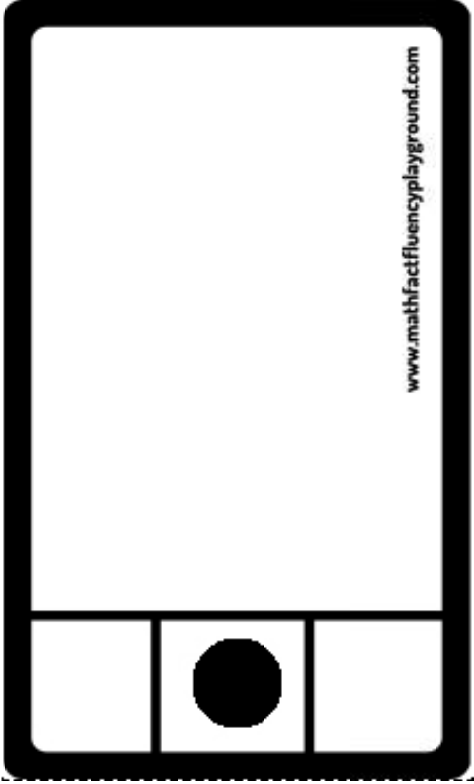
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CLIP IT

MULTIPLYING BY 11		55
6	$\times 11$	66
11	$\times 6$	33

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

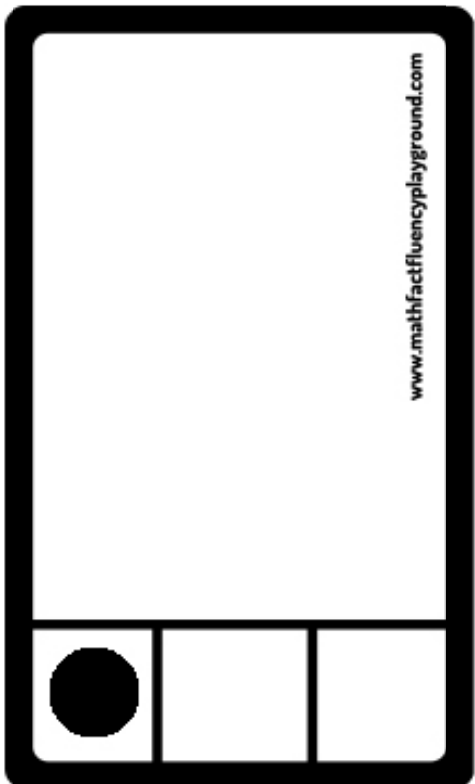


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MULTIPLYING BY 11		77
7	$\times 11$	88
11	$\times 7$	66

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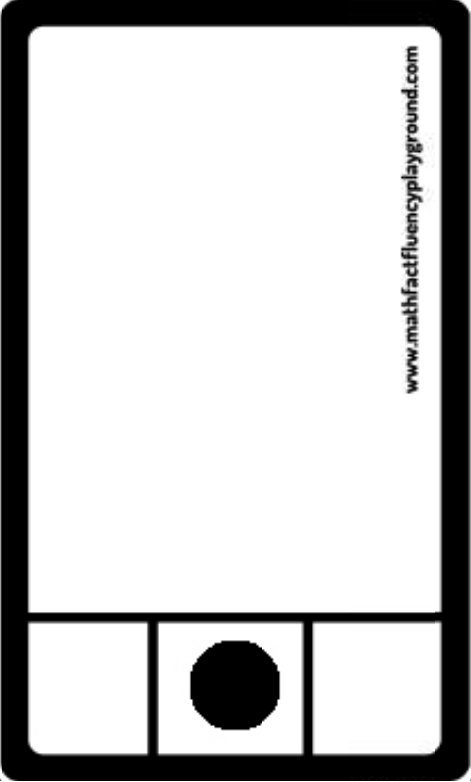
www.mathfactfluencyplayground.com

CLIP IT

MULTIPLYING BY 11		77
8	$\times 11$	88
11	$\times 8$	99

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www.mathfactfluencyplayground.com

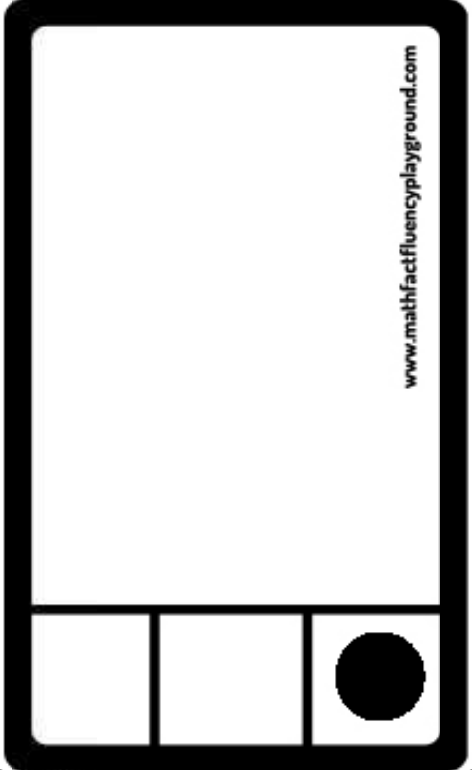


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MULTIPLYING BY 11		77
9	$\times 11$	88
11	$\times 9$	99

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www.mathfactfluencyplayground.com



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CLIP IT

MULTIPLYING BY 11		100
10	×	11
11	×	10

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MULTIPLYING BY 12		12
1	×	12
12	×	1

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CLIP IT

MULTIPLYING BY 12		12
2	$\times 12$	24
12	$\times 2$	36

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MULTIPLYING BY 12		48
3	$\times 12$	24
12	$\times 3$	36

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CLIP IT

MULTIPLYING BY 12		60
4	×	12
12	×	4
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		www.mathfactfluencyplayground.com

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MULTIPLYING BY 12		72
5	×	12
12	×	5
www.mathfactfluencyplayground.com		

		●
		www.mathfactfluencyplayground.com

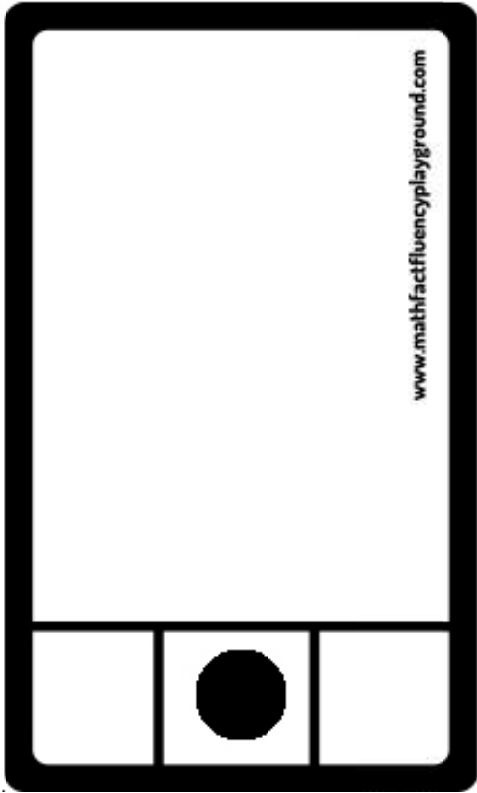
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CLIP IT

MULTIPLYING BY 12		84
6	$\times 12$	72
12	$\times 6$	60

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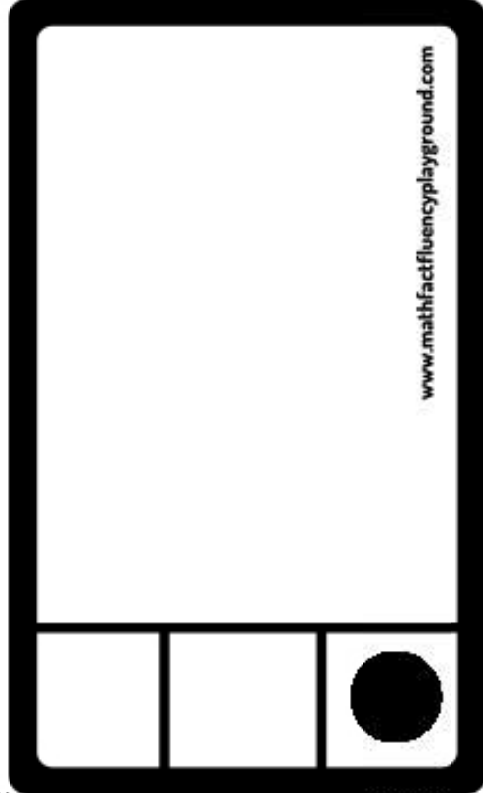
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MULTIPLYING BY 12		96
7	$\times 12$	72
12	$\times 7$	84

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CLIP IT

MULTIPLYING BY 12		60
8	$\times 12$	84
12	$\times 8$	96

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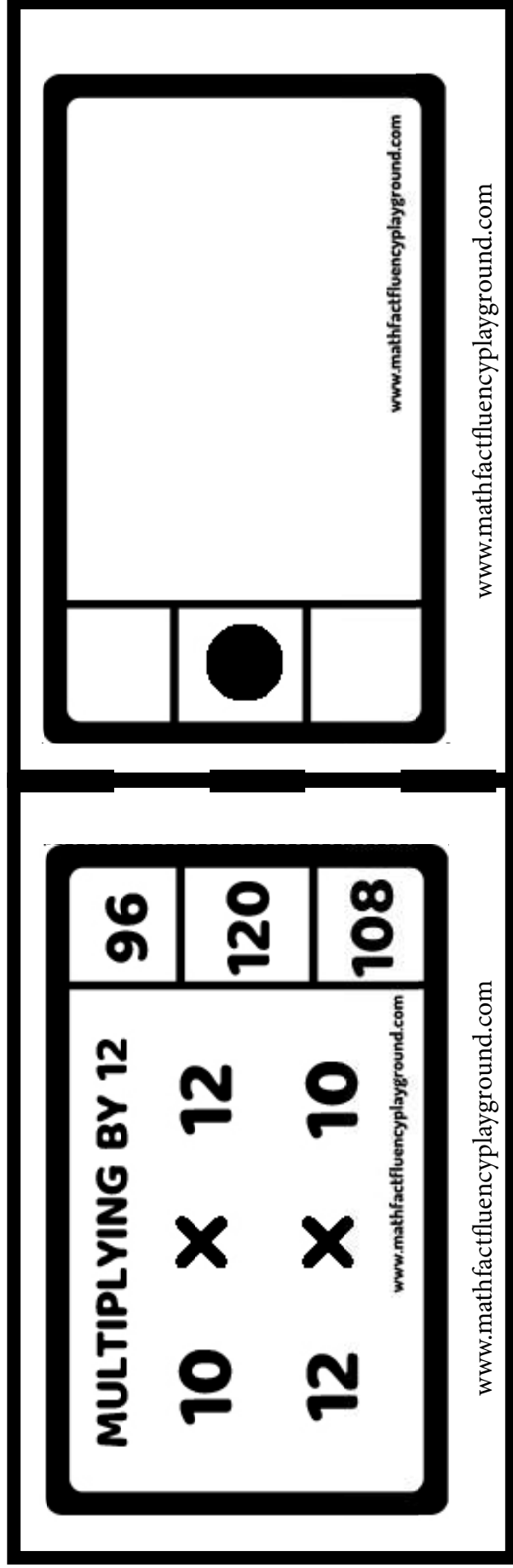
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MULTIPLYING BY 12		120
9	$\times 12$	96
12	$\times 9$	108

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CLIP IT



MISSING NUMBER

Missing Number

Missing number is part of most 3rd grade standards. This is an expansion of the idea of missing numbers in the primary grades, where students are working with addition and subtraction. Now they are working with missing numbers with multiplication and division. Students should be encouraged to reason about the numbers and explain how they are finding the answer. Also, they should be able to defend their thinking and discuss why their answer is correct.

$$0 \times 2 = \boxed{}$$

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$$0 \times 2 = \boxed{0}$$

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MISSING NUMBER

$$0 \times 2 = \square$$

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$$0 \times 2 = \square$$

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$$\square \times 3 = 0$$

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$$0 \times 3 = 0$$

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MISSING NUMBER

$$0 \times 4 = \square$$

$$0 \times 4 = 0$$

$$0 \times 5 = \square$$

$$0 \times 5 = 0$$

MISSING NUMBER

$$0 \times 6 = \square$$

$$0 \times 6 = 0$$

$$0 \times 7 = \square$$

$$0 \times 7 = 0$$

MISSING NUMBER

$$0 \times 8 = \square$$

$$0 \times 8 = 0$$

$$0 \times 9 = \square$$

$$0 \times 9 = 0$$

MISSING NUMBER

$$1 \times \square = 0$$

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www.mathfactfluencyplayground.com

$$1 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \square = 1$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{1} = 1$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$1 \times \square = 2$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{2} = 2$$

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www.mathfactfluencyplayground.com

$$1 \times \square = 3$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{3} = 3$$

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www.mathfactfluencyplayground.com

MISSING NUMBER

$$1 \times \square = 4$$

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www.mathfactfluencyplayground.com

$$1 \times \boxed{4} = 4$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \square = 5$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{5} = 5$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$1 \times \square = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{6} = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \square = 7$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{7} = 7$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$1 \times \square = 8$$

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www.mathfactfluencyplayground.com

$$1 \times \boxed{8} = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \square = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{9} = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$1 \times \square = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$1 \times \boxed{10} = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$2 \times \square = 2$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{1} = 2$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 4$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{2} = 4$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$2 \times \square = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{3} = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{4} = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$2 \times \square = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{5} = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{6} = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$2 \times \square = 14$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{7} = 14$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \boxed{8} = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$2 \times \square = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times 9 = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times \square = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$2 \times 10 = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 3$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 3$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{2} = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{3} = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{4} = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 15$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{5} = 15$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{6} = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 21$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{7} = 21$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times 8 = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \square = 27$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times 9 = 27$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$3 \times \square = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$3 \times \boxed{10} = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{1} = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{2} = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$4 \times \square = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{3} = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \square = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{4} = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$4 \times \square = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{5} = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \square = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{6} = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$4 \times \square = 28$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times 7 = 28$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \square = 32$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times 8 = 32$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$4 \times \square = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{9} = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \square = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$4 \times \boxed{10} = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \square = 5$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \boxed{1} = 5$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \boxed{2} = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \square = 15$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \boxed{3} = 15$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 4 = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \square = 25$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 5 = 25$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 6 = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \square = 35$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 7 = 35$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 8 = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \square = 45$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times 9 = 45$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$5 \times \square = 50$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$5 \times \boxed{10} = 50$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$6 \times \square = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{1} = 6$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{2} = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$6 \times \square = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{3} = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{4} = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$6 \times \square = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times 5 = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times 6 = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$6 \times \square = 42$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{7} = 42$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{8} = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$6 \times \square = 54$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{9} = 54$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \square = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$6 \times \boxed{10} = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$7 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 7$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 7$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$7 \times \square = 14$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{2} = 14$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 21$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{3} = 21$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$7 \times \square = 28$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{4} = 28$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 35$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{5} = 35$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$7 \times \square = 42$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times 6 = 42$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \square = 49$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times 7 = 49$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$7 \times \boxed{8} = 56$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{8} = 56$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{} = 70$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$7 \times \boxed{10} = 70$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 8$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{2} = 16$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{3} = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 32$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times 4 = 32$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times 5 = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{6} = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 56$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{7} = 56$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 64$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{8} = 64$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \square = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{9} = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$8 \times \square = 80$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$8 \times \boxed{10} = 80$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{0} = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{1} = 9$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{2} = 18$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 27$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{3} = 27$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{4} = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 45$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{5} = 45$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 54$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{6} = 54$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 63$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{7} = 63$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{8} = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$9 \times \square = 81$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{9} = 81$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \square = 90$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$9 \times \boxed{10} = 90$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$10 \times \square = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{1} = 10$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \square = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{2} = 20$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$10 \times \square = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{3} = 30$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \square = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{4} = 40$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$10 \times \square = 50$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{5} = 50$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \square = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{6} = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$10 \times \square = 70$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{7} = 70$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \square = 80$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{8} = 80$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$10 \times \square = 90$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{9} = 90$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \square = 100$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$10 \times \boxed{10} = 100$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$11 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 11$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 11$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$11 \times \square = 22$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{2} = 22$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 33$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{3} = 33$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$11 \times \square = 44$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{4} = 44$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 55$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{5} = 55$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$11 \times \square = 66$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{6} = 66$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \square = 77$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times \boxed{7} = 77$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$11 \times \square = 88$

www.mathfactfluencyplayground.com

$11 \times 8 = 88$

www.mathfactfluencyplayground.com

$11 \times \square = 99$

www.mathfactfluencyplayground.com

$11 \times 9 = 99$

www.mathfactfluencyplayground.com

MISSING NUMBER

$$11 \times \square = 110$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$11 \times 10 = 110$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \square = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times 0 = 0$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$12 \times \square = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{1} = 12$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \square = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{2} = 24$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$12 \times \square = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{3} = 36$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \square = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{4} = 48$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$12 \times \square = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{5} = 60$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \square = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{6} = 72$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$12 \times \square = 84$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \boxed{7} = 84$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

MISSING NUMBER

$$12 \times \square = 96$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times 8 = 96$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times \square = 108$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

$$12 \times 9 = 108$$

www.mathfactfluencyplayground.com

www.mathfactfluencyplayground.com

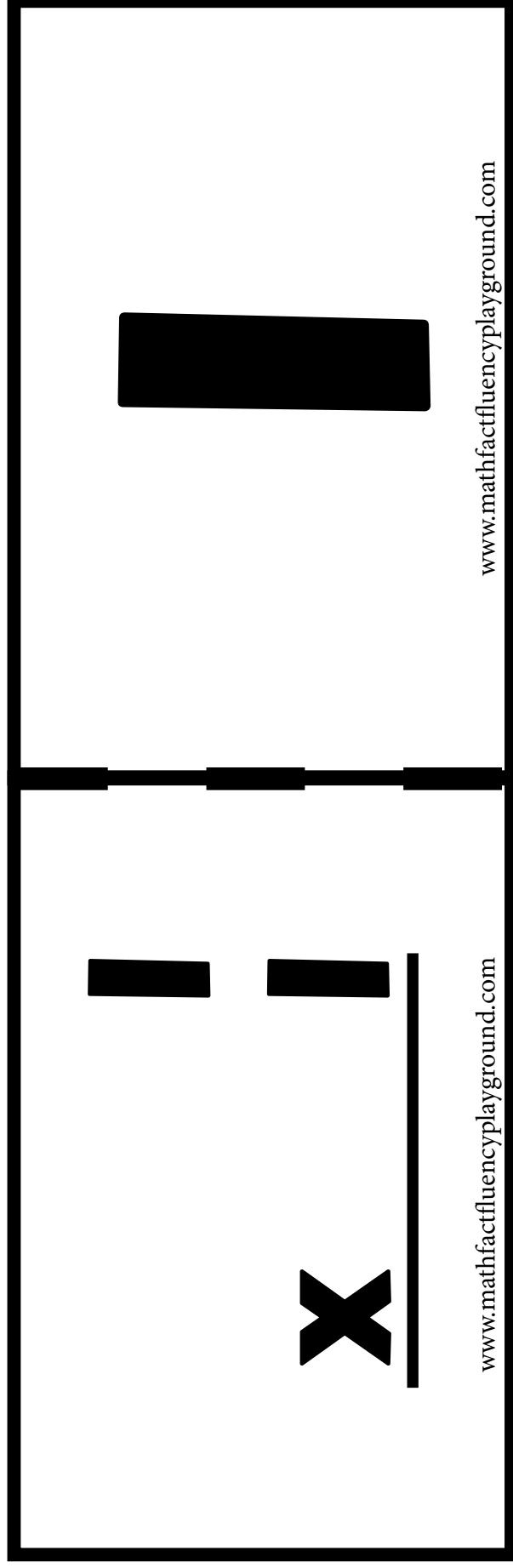
MISSING NUMBER

<div>$12 \times \square = 120$</div> <div>www.mathfactfluencyplayground.com</div>	<div>$12 \times \boxed{10} = 120$</div> <div>www.mathfactfluencyplayground.com</div>
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VERTICAL CARDS

Vertical Cards

These are traditional flashcards. One of the best things for students to do with these cards is to name the strategy that they would use to solve the problem. This helps students to think about the numbers and decide which strategy works best.



VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

4

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

5

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

7

www.mathfactfluencyplayground.com

VERTICAL CARDS

8

1

x

www.mathfactfluencyplayground.com

8

www.mathfactfluencyplayground.com

9

1

x

www.mathfactfluencyplayground.com

9

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$10$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$2$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

4

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

8

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

10

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

14

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 82 \\ \times \quad \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 16 \\ \times \quad \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 92 \\ \times \quad \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 18 \\ \times \quad \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

20

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

VERTICAL CARDS

2

3

x

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

3

3

x

www.mathfactfluencyplayground.com

9

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

15

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

18

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

21

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

24

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

27

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 30 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 4 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

8

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

16

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

20

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 24 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 28 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

32

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

36

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VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$40$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$5$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

10

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

15

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 20 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 25 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 30 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 35 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 40 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 45 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 5 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$50$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$6$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

18

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VERTICAL CARDS

4

6

x

www.mathfactfluencyplayground.com

24

www.mathfactfluencyplayground.com

5

6

x

www.mathfactfluencyplayground.com

30

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

36

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 48 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 54 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

10

x 6

www.mathfactfluencyplayground.com

60

www.mathfactfluencyplayground.com

1

x 7

www.mathfactfluencyplayground.com

7

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

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14

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

21

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 28 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 35 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$42$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$49$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

56

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

63

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$70$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$8$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

16

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

24

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

32

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

40

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

64

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

72

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 80 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

18

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

27

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 36 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 45 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 69 \\ \times \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$54$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 79 \\ \times \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$63$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

72

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

81

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$$

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$$\begin{array}{r} 90 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 1 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 10 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 20 \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 3 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 30 \end{array}$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$40$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 5 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$50$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 6 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$60$$

www.mathfactfluencyplayground.com

$$\begin{array}{r} 7 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

$$70$$

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 8 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

80

www.mathfactfluencyplayground.com

$$\begin{array}{r} 9 \\ \times 10 \\ \hline \end{array}$$

www.mathfactfluencyplayground.com

90

www.mathfactfluencyplayground.com

VERTICAL CARDS

$$\begin{array}{r} 10 \\ \times 10 \\ \hline \end{array}$$

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$$\begin{array}{r} 100 \\ \times 100 \\ \hline \end{array}$$

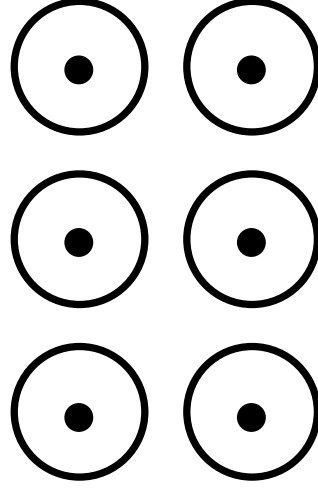
www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

Equal Group/Array

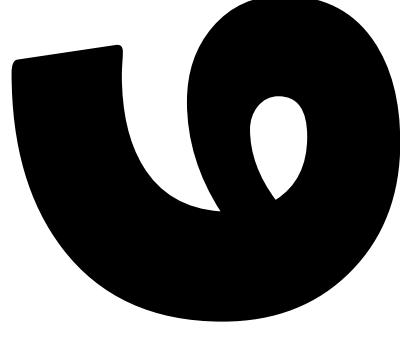
These are cards that work on modeling multiplication strategies. The students practice with cards where they can see the different equal group and array models. Encourage students to tell stories where they can match the models. You can play battle games, match games and concentration games, as well as just practicing the facts with the flashcards.

EQUAL GROUPS



$$6 \times 1 = ?$$

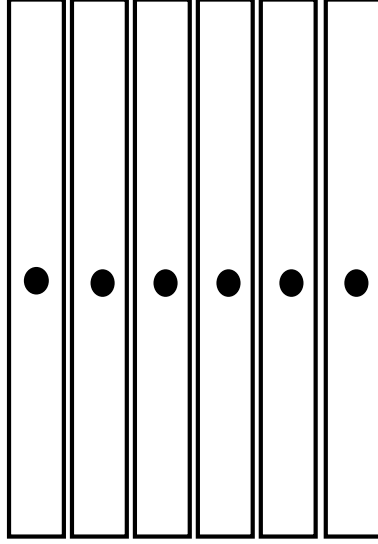
www.mathfactfluencyplayground.com



www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



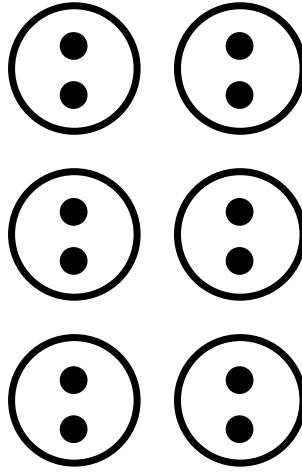
$$6 \times 1 = ?$$

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 2 = ?$$

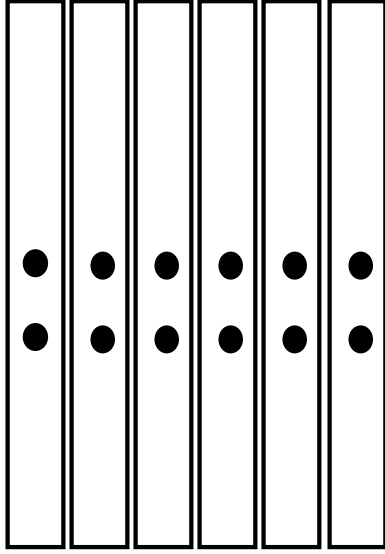
www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



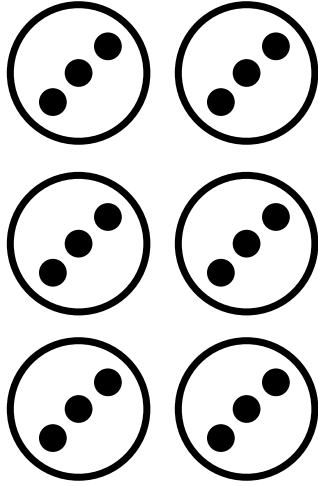
$$6 \times 2 = ?$$

www.mathfactfluencyplayground.com

12

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 3 = ?$$

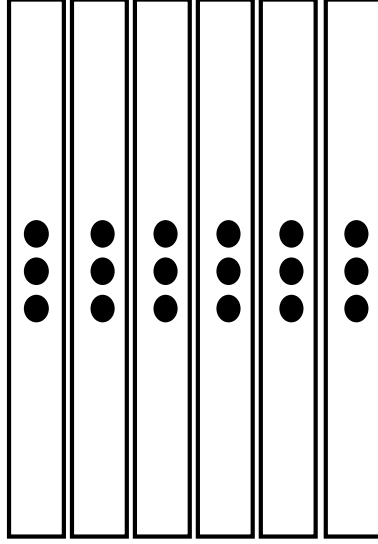
www.mathfactfluencyplayground.com

18

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



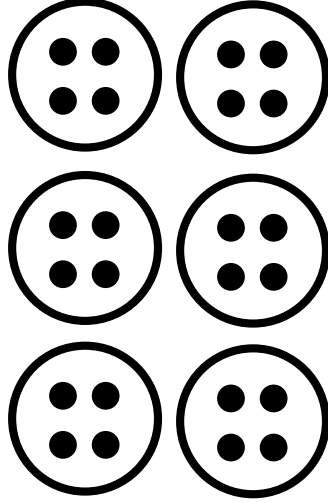
$$6 \times 3 = ?$$

www.mathfactfluencyplayground.com

18

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 4 = ?$$

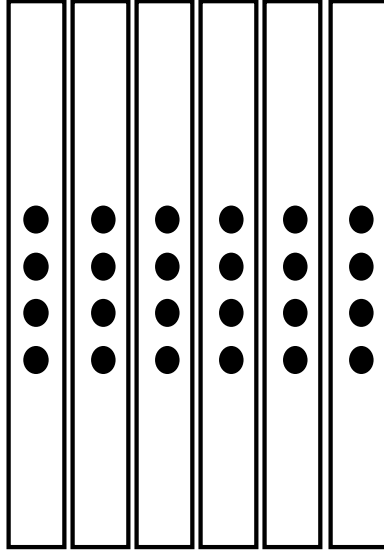
www.mathfactfluencyplayground.com

24

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



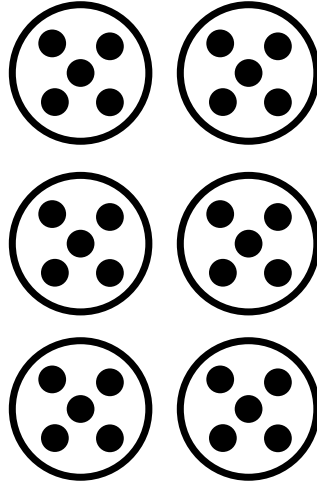
$$6 \times 4 = ?$$

www.mathfactfluencyplayground.com

24

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EQUAL GROUPS



$$6 \times 5 = ?$$

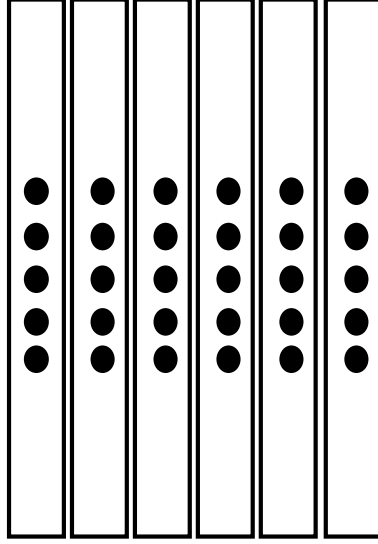
www.mathfactfluencyplayground.com

30

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



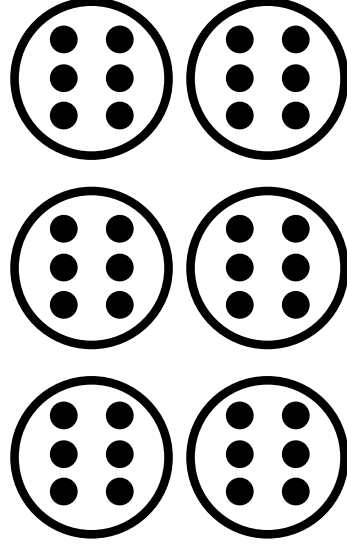
$$6 \times 5 = ?$$

www.mathfactfluencyplayground.com

30

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 6 = ?$$

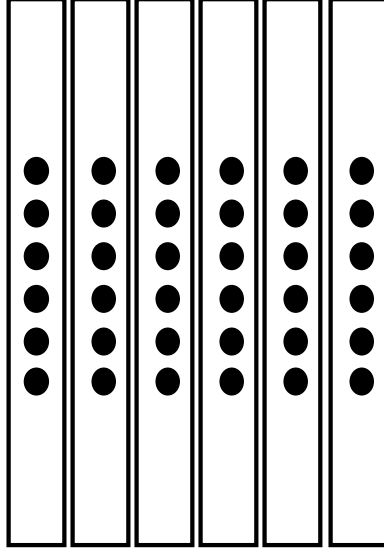
www.mathfactfluencyplayground.com

36

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EQUAL GROUP/ARRAY

ARRAY



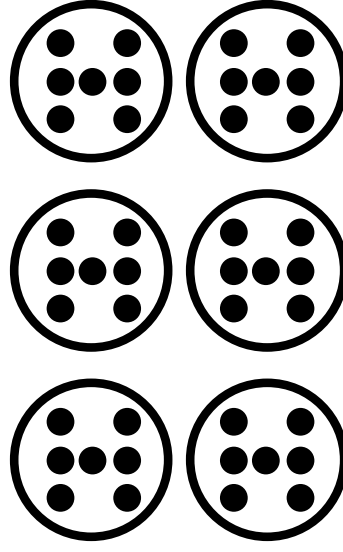
$$6 \times 6 = ?$$

www.mathfactfluencyplayground.com

36

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 6 = ?$$

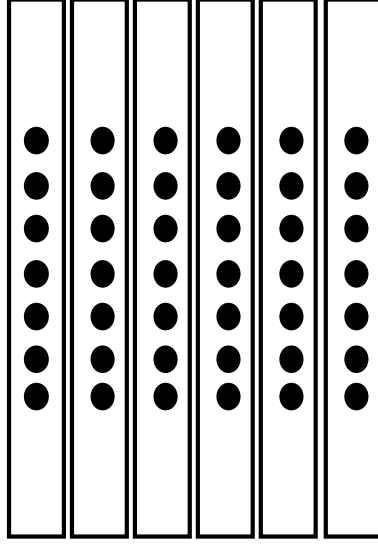
www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



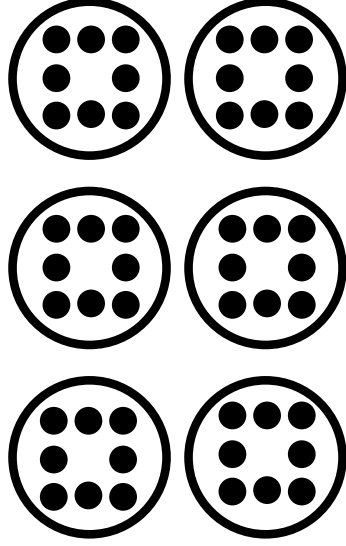
$$6 \times 7 = ?$$

www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 8 = ?$$

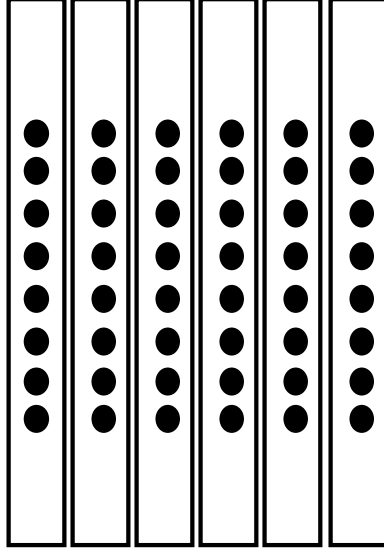
www.mathfactfluencyplayground.com

48

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



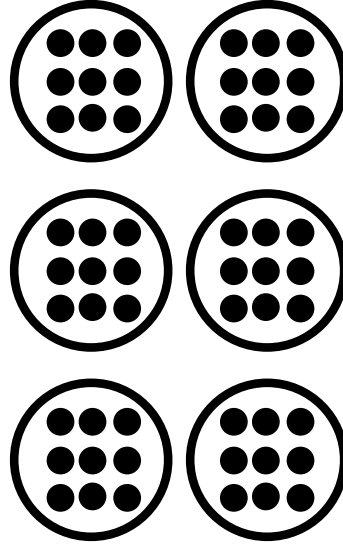
$$6 \times 8 = ?$$

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48

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 8 = ?$$

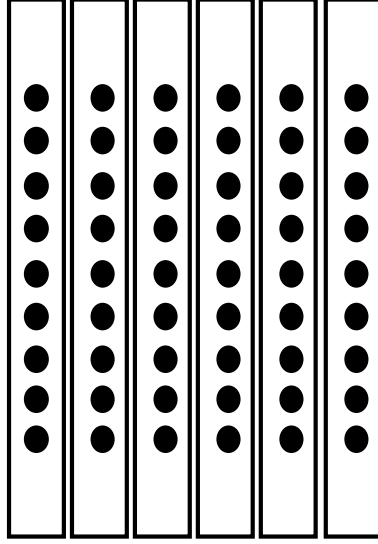
www.mathfactfluencyplayground.com

54

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



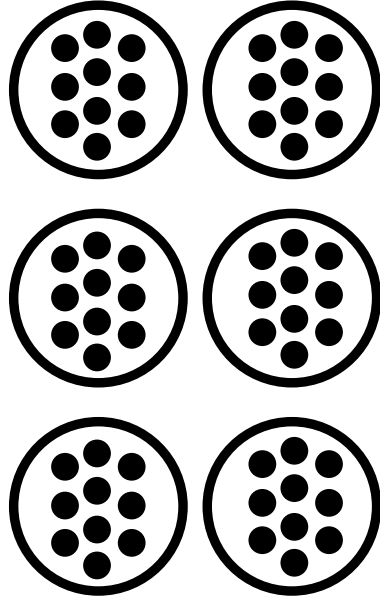
$$6 \times 9 = ?$$

www.mathfactfluencyplayground.com

54

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$6 \times 10 = ?$$

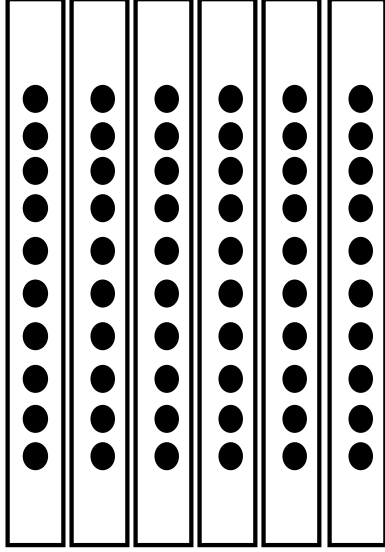
www.mathfactfluencyplayground.com

60

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



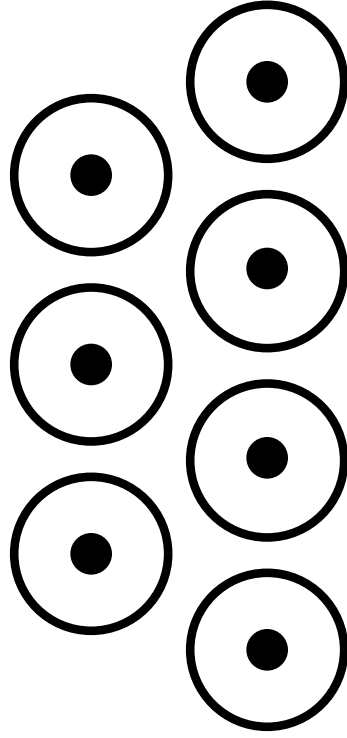
$$6 \times 10 = ?$$

www.mathfactfluencyplayground.com

60

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$7 \times 10 = ?$$

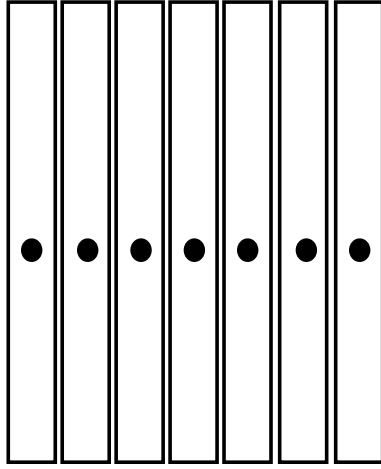
www.mathfactfluencyplayground.com

70

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



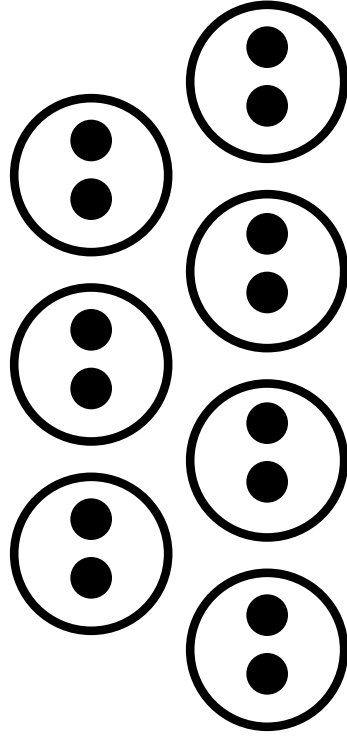
$$7 \times 1 = ?$$

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7

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EQUAL GROUPS



$$7 \times 2 = ?$$

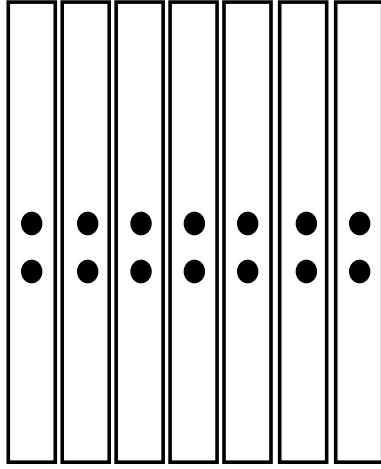
www.mathfactfluencyplayground.com

14

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



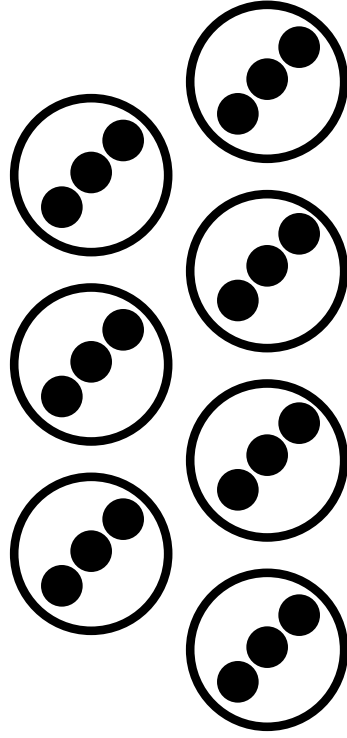
$$7 \times 2 = ?$$

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14

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$7 \times 3 = ?$$

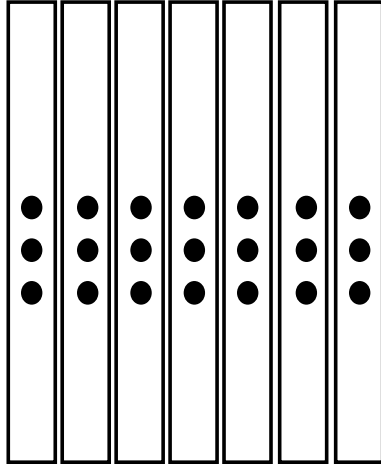
www.mathfactfluencyplayground.com

21

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



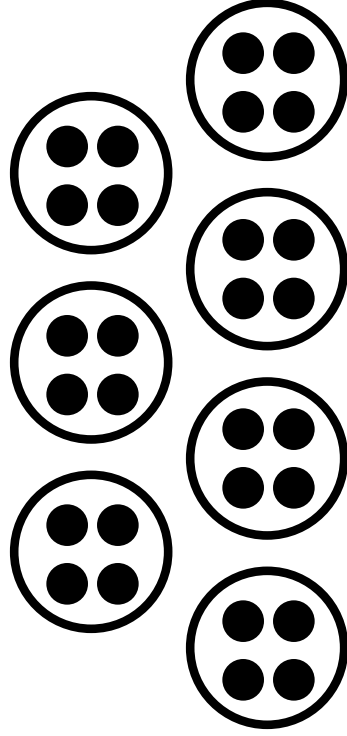
$$7 \times 3 = ?$$

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21

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$7 \times 4 = ?$$

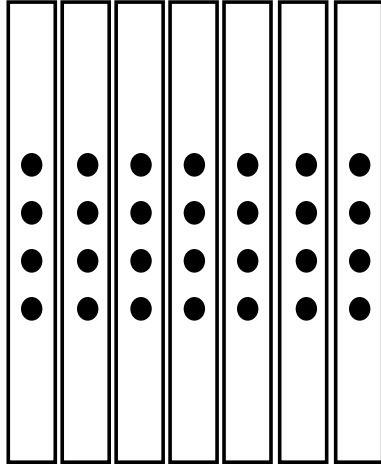
www.mathfactfluencyplayground.com

28

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



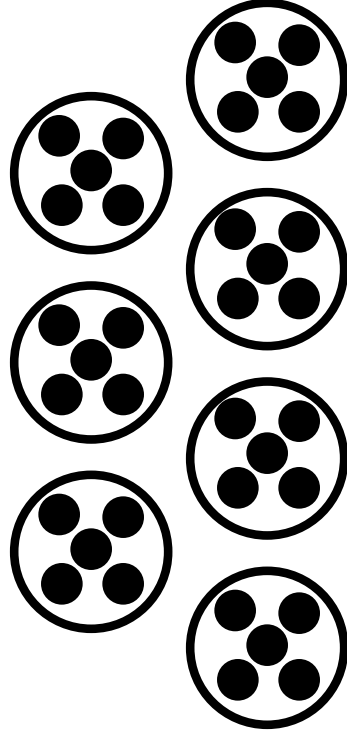
$$7 \times 4 = ?$$

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28

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EQUAL GROUPS



$$7 \times 5 = ?$$

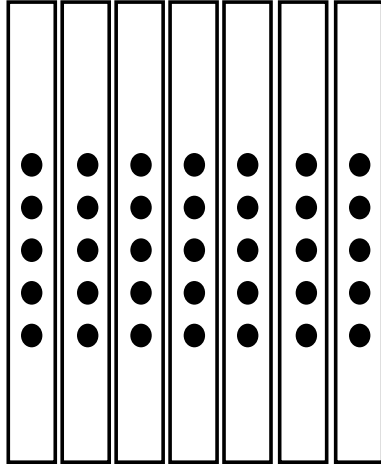
www.mathfactfluencyplayground.com

35

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



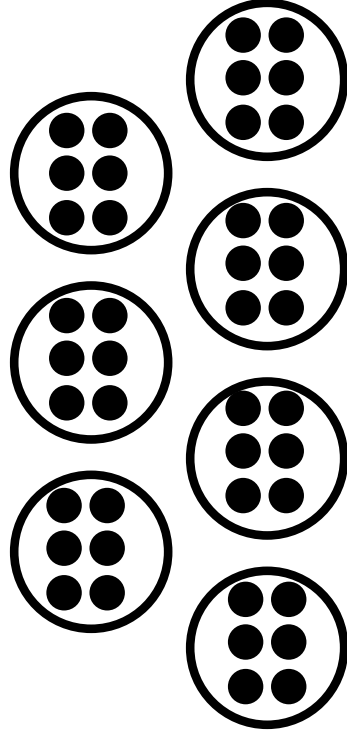
$$7 \times 5 = ?$$

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35

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EQUAL GROUPS



$$7 \times 6 = ?$$

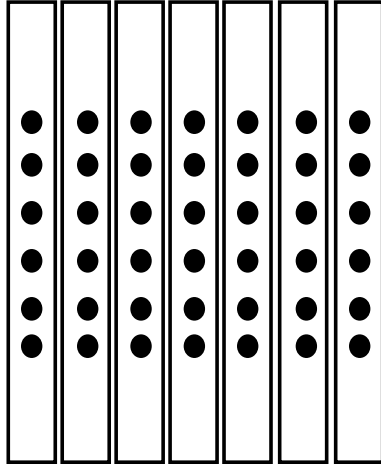
www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



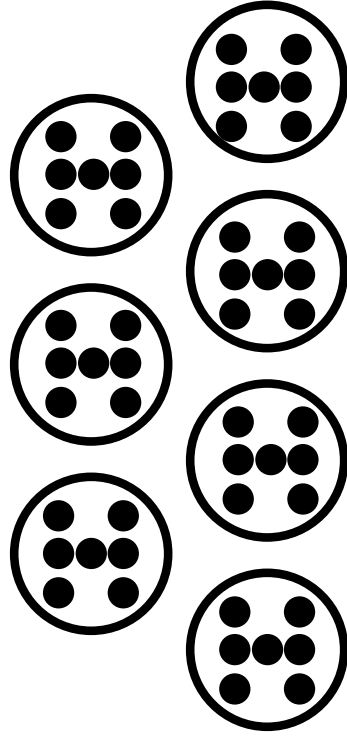
$$7 \times 6 = ?$$

www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$7 \times 6 = ?$$

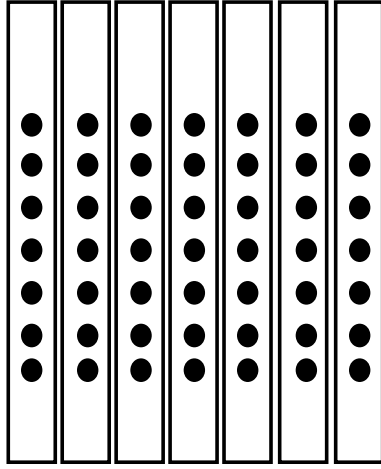
www.mathfactfluencyplayground.com

42

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



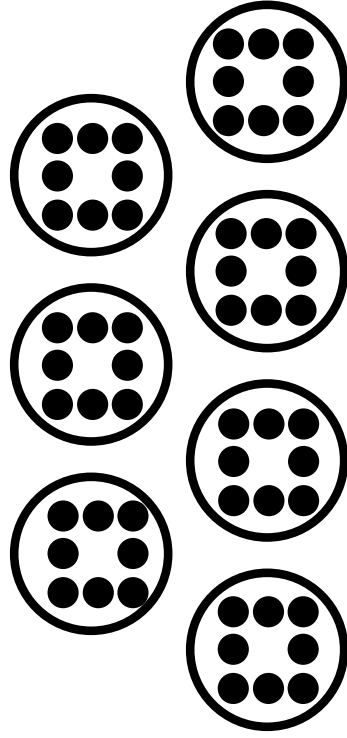
$$7 \times 7 = ?$$

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49

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EQUAL GROUPS



$$7 \times 8 = ?$$

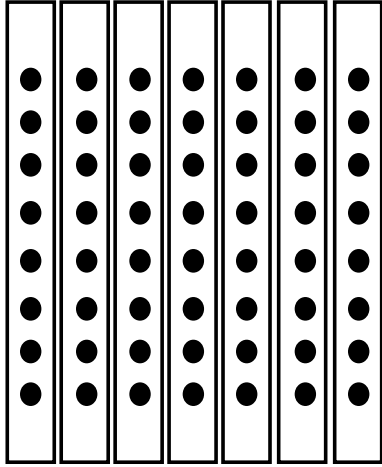
www.mathfactfluencyplayground.com

56

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



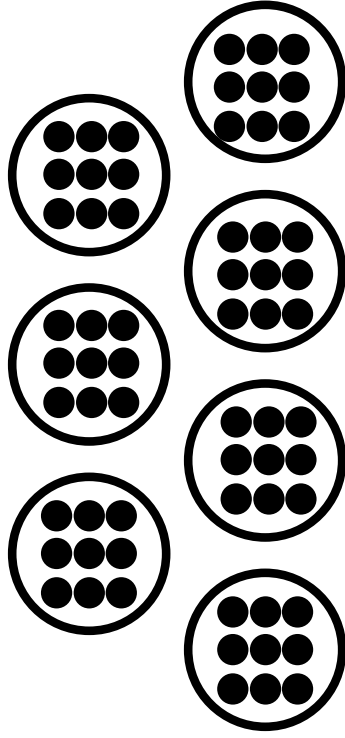
$$7 \times 8 = ?$$

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56

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EQUAL GROUPS



$$7 \times 9 = ?$$

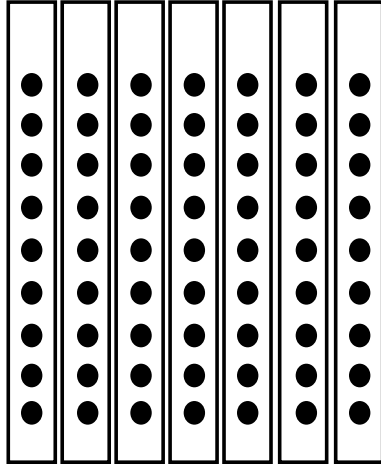
www.mathfactfluencyplayground.com

63

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



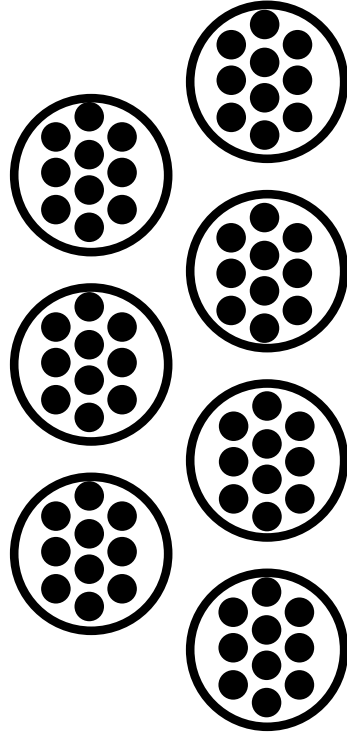
$$7 \times 9 = ?$$

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63

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$7 \times 10 = ?$$

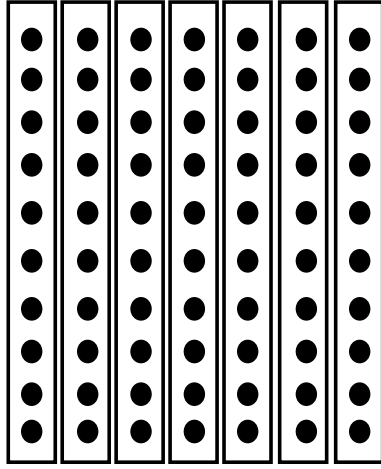
www.mathfactfluencyplayground.com

70

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



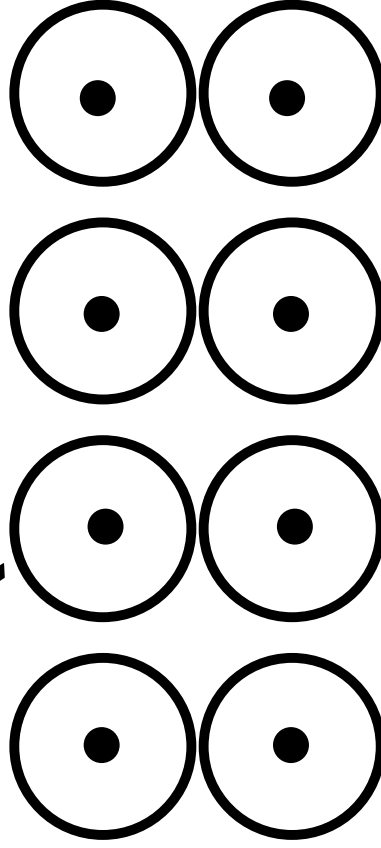
$$7 \times 10 = ?$$

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70

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EQUAL GROUPS



$$8 \times 1 = ?$$

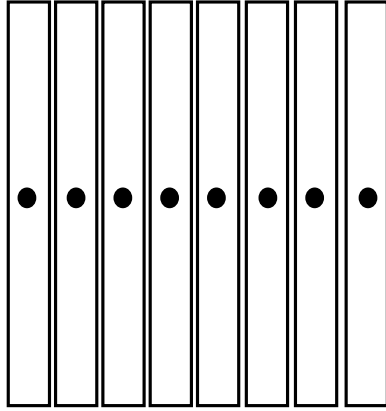
www.mathfactfluencyplayground.com

8

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



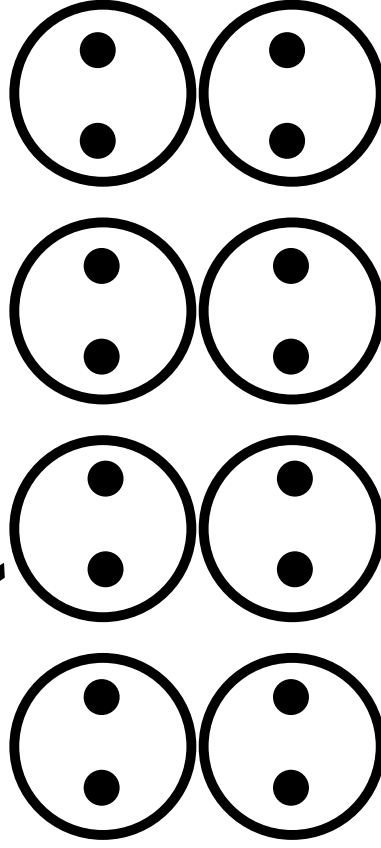
$$8 \times 1 = ?$$

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8

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EQUAL GROUPS



$$8 \times 2 = ?$$

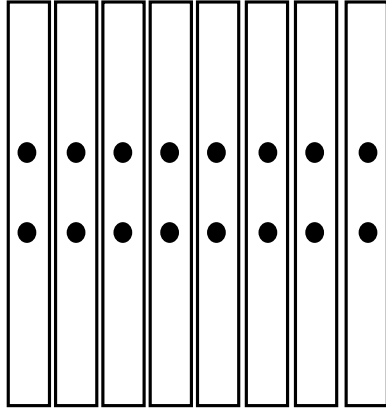
www.mathfactfluencyplayground.com

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www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



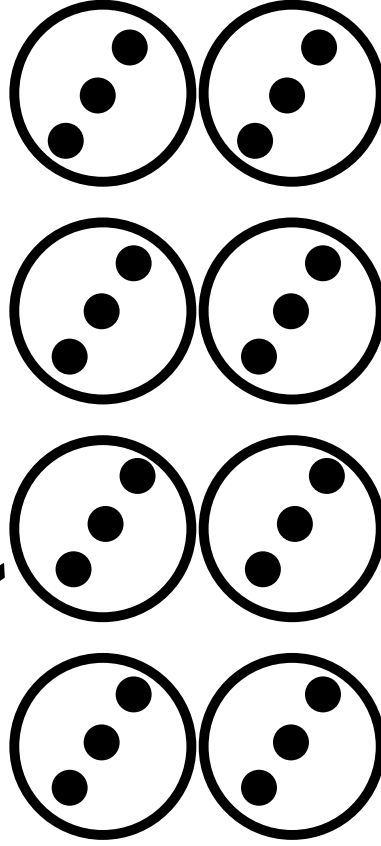
$$8 \times 2 = ?$$

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16

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EQUAL GROUPS



$$8 \times 3 = ?$$

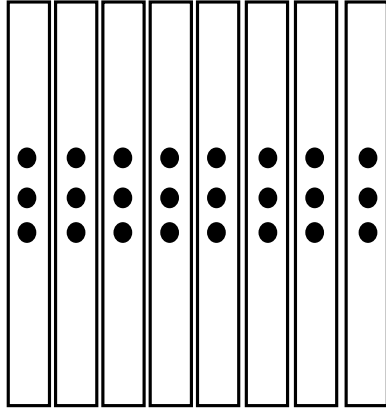
www.mathfactfluencyplayground.com

24

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



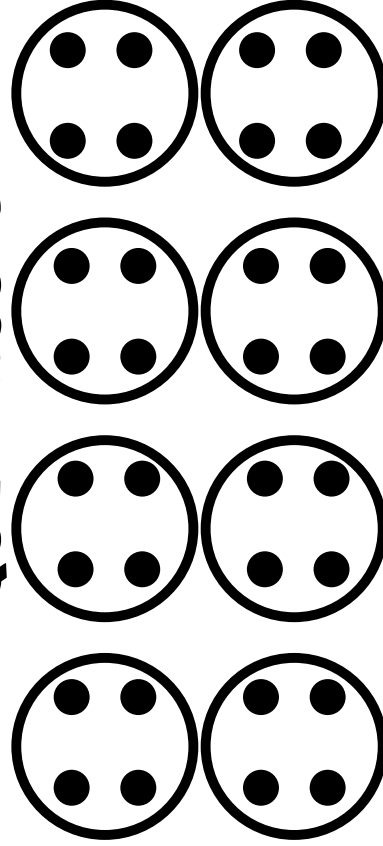
$$8 \times 3 = ?$$

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24

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EQUAL GROUPS



$$8 \times 4 = ?$$

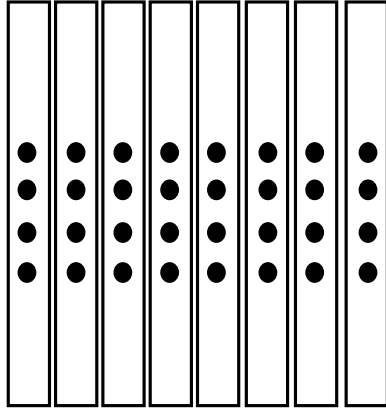
www.mathfactfluencyplayground.com

32

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



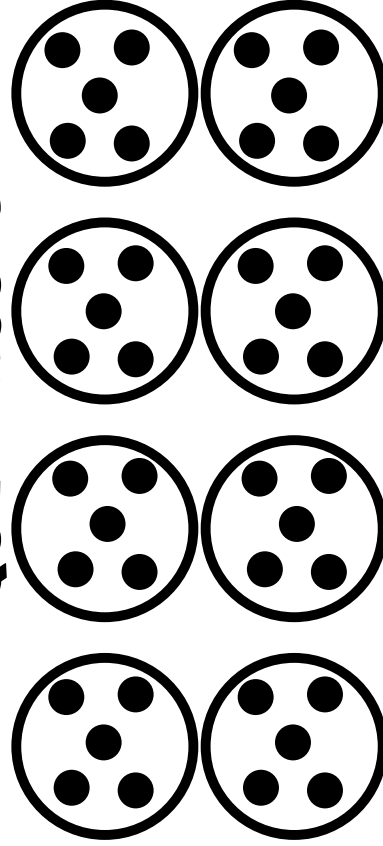
$$8 \times 4 = ?$$

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32

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EQUAL GROUPS



$$8 \times 5 = ?$$

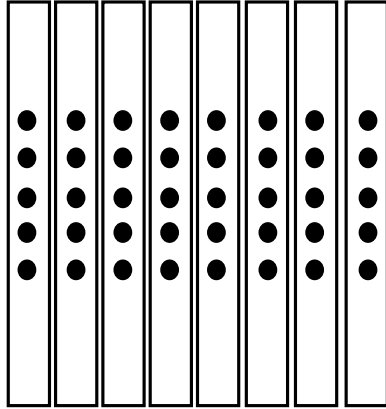
www.mathfactfluencyplayground.com

40

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



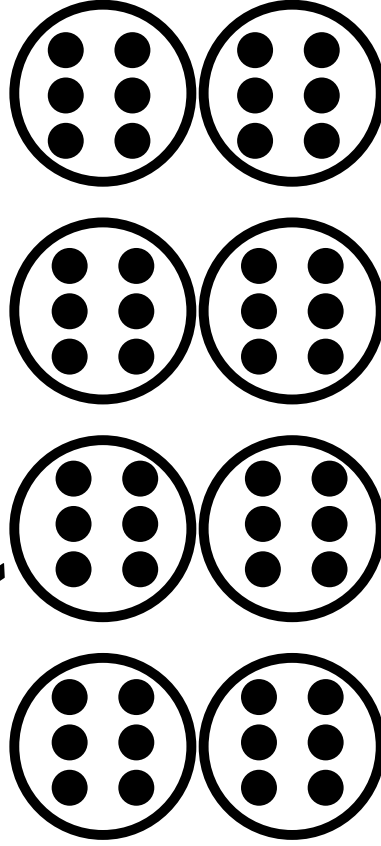
$$8 \times 5 = ?$$

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40

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$8 \times 6 = ?$$

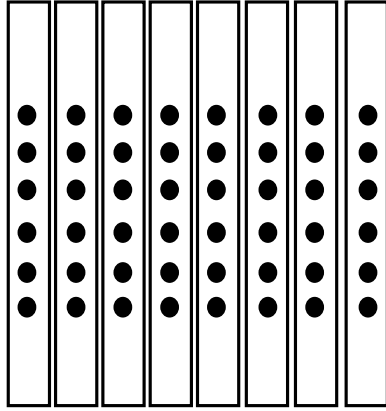
www.mathfactfluencyplayground.com

48

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



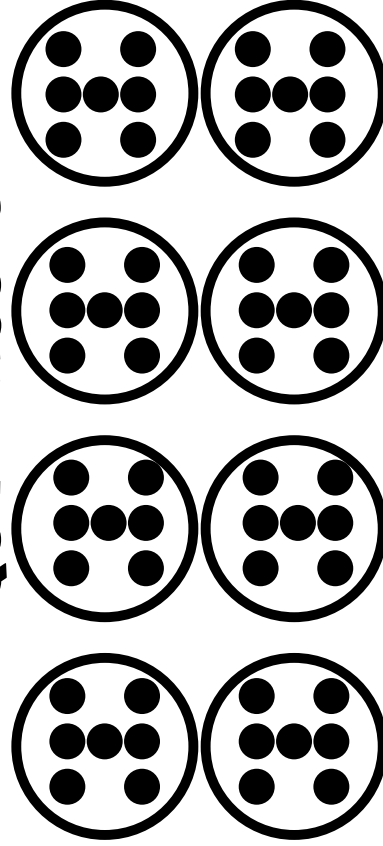
$$8 \times 6 = ?$$

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48

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EQUAL GROUPS



$$8 \times 7 = ?$$

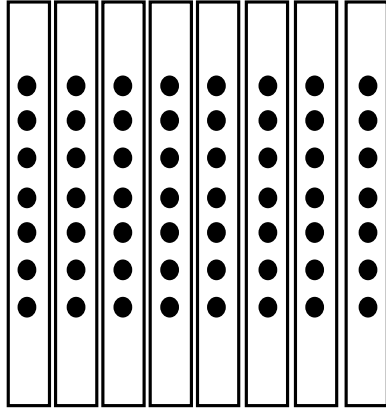
www.mathfactfluencyplayground.com

56

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



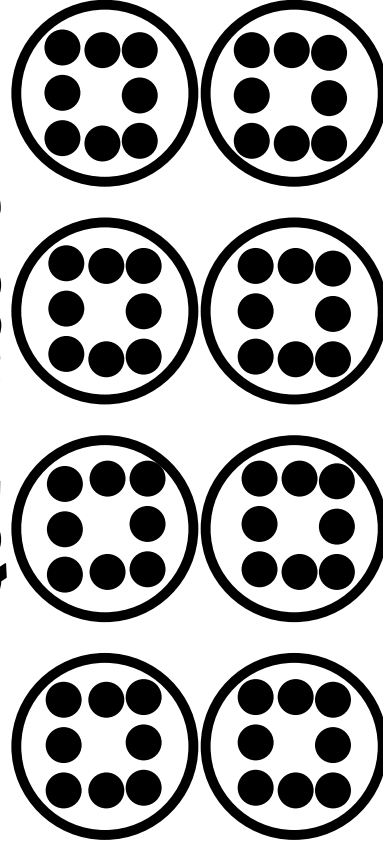
$$8 \times 7 = ?$$

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56

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$8 \times 8 = ?$$

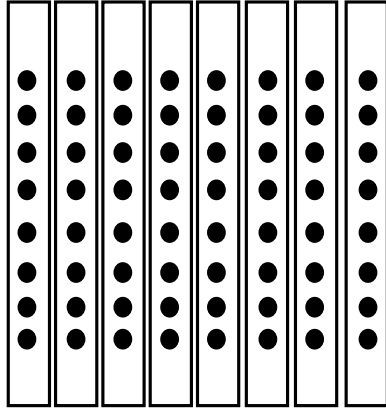
www.mathfactfluencyplayground.com

64

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



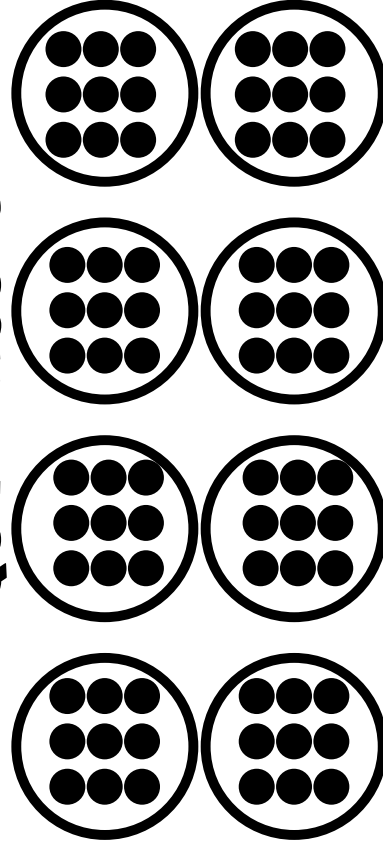
$$8 \times 8 = ?$$

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64

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$8 \times 9 = ?$$

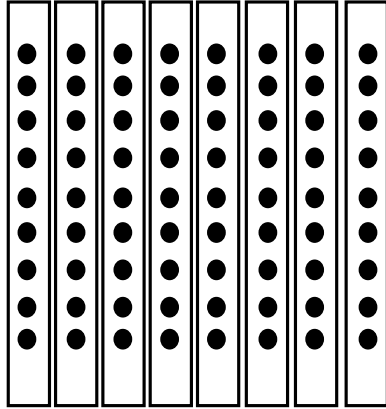
www.mathfactfluencyplayground.com

72

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



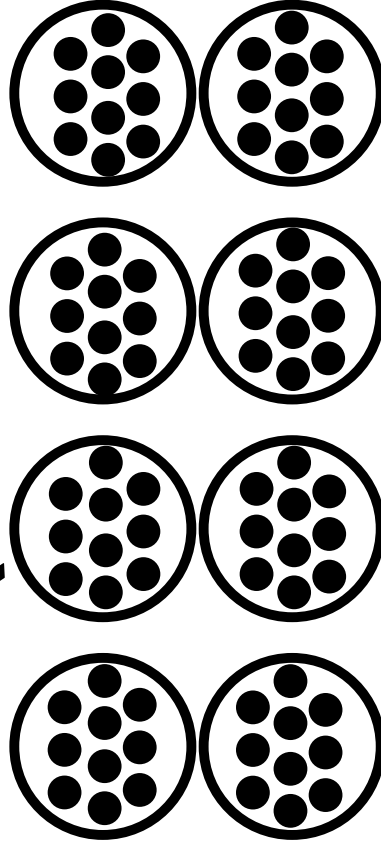
$$8 \times 9 = ?$$

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72

www.mathfactfluencyplayground.com

EQUAL GROUPS



$$8 \times 10 = ?$$

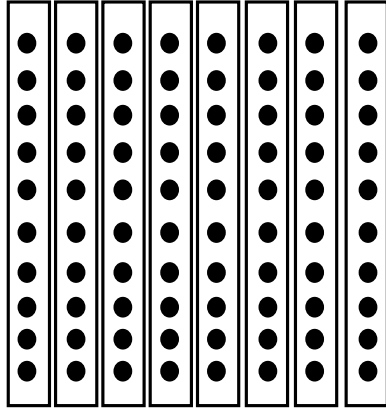
www.mathfactfluencyplayground.com

80

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



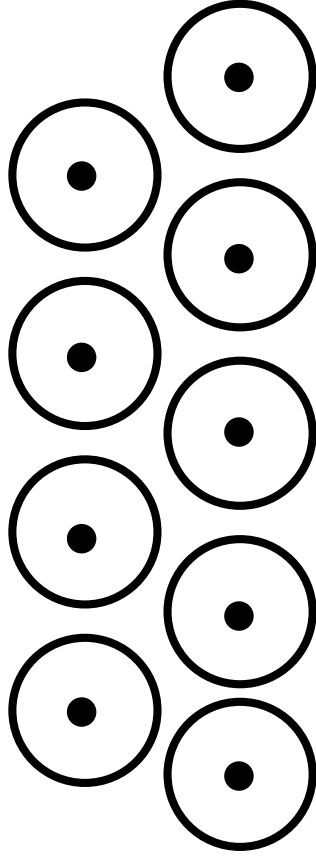
$$8 \times 10 = ?$$

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80

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EQUAL GROUPS



$$9 \times 1 = ?$$

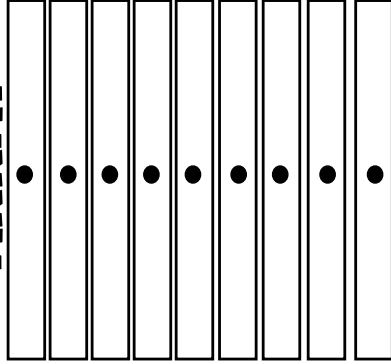
www.mathfactfluencyplayground.com

9

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EQUAL GROUP/ARRAY

ARRAY



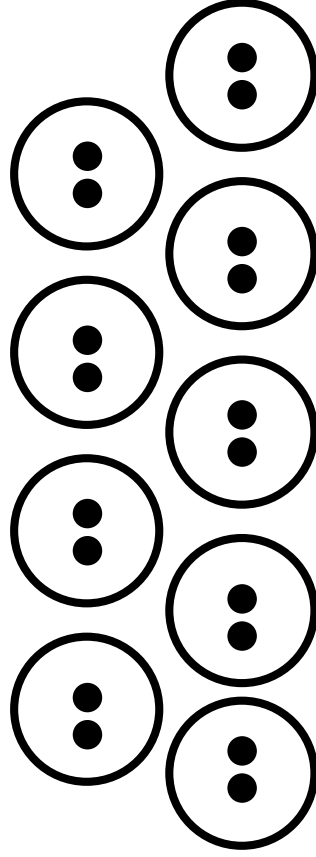
$$9 \times 1 = ?$$

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9

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EQUAL GROUPS



$$9 \times 2 = ?$$

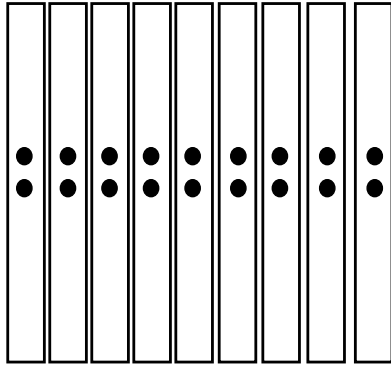
www.mathfactfluencyplayground.com

18

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



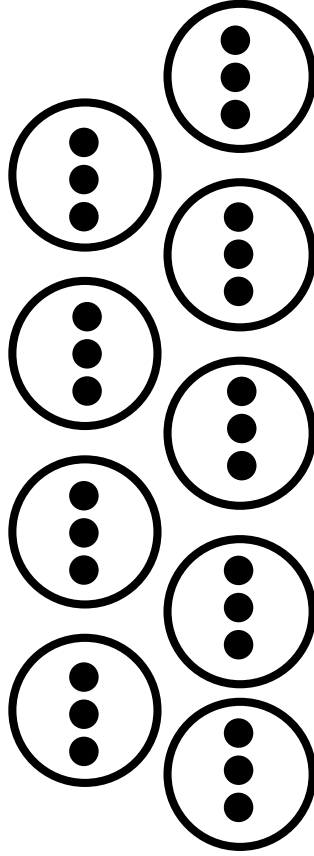
$$9 \times 2 = ?$$

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18

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EQUAL GROUPS



$$9 \times 3 = ?$$

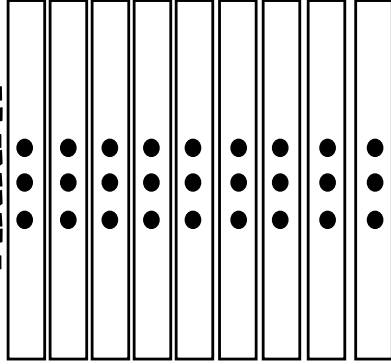
www.mathfactfluencyplayground.com

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EQUAL GROUP/ARRAY

ARRAY



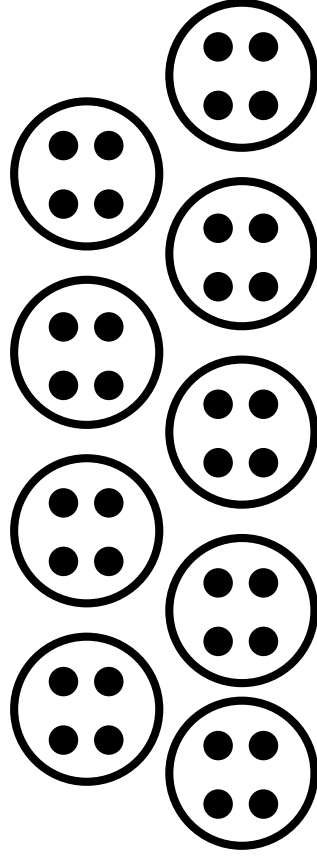
$$9 \times 3 = ?$$

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27

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EQUAL GROUPS



$$9 \times 4 = ?$$

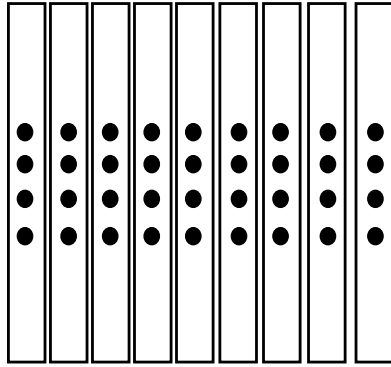
www.mathfactfluencyplayground.com

36

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EQUAL GROUP/ARRAY

ARRAY



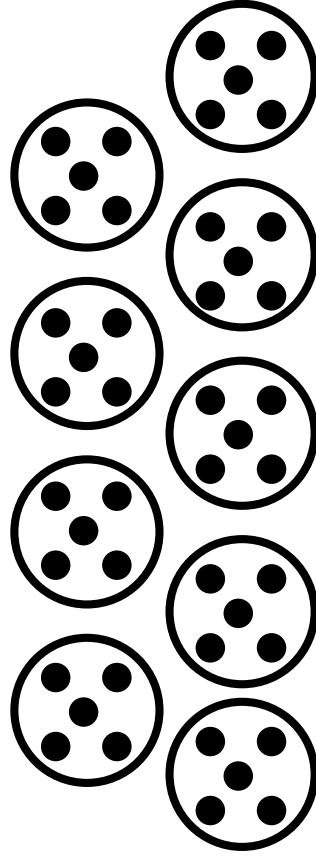
$$9 \times 4 = ?$$

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36

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EQUAL GROUPS



$$9 \times 5 = ?$$

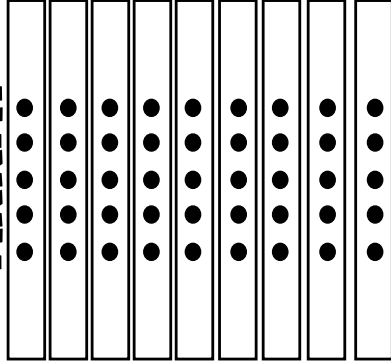
www.mathfactfluencyplayground.com

45

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EQUAL GROUP/ARRAY

ARRAY



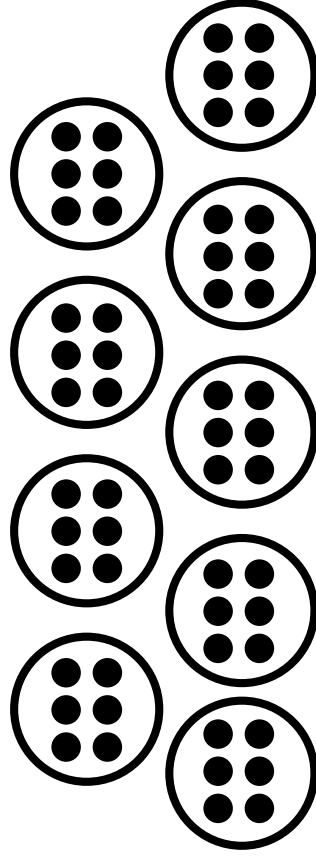
$$9 \times 5 = ?$$

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45

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EQUAL GROUPS



$$9 \times 6 = ?$$

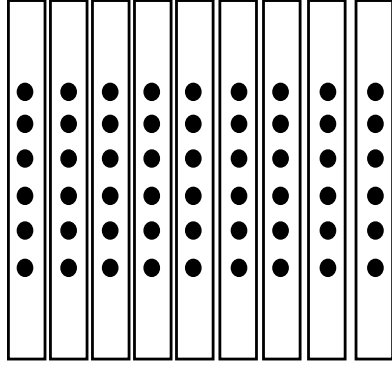
www.mathfactfluencyplayground.com

54

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EQUAL GROUP/ARRAY

ARRAY



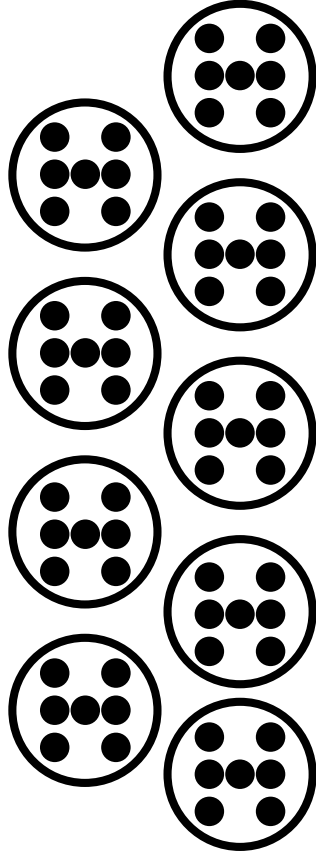
$$9 \times 6 = ?$$

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54

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EQUAL GROUPS



$$9 \times 7 = ?$$

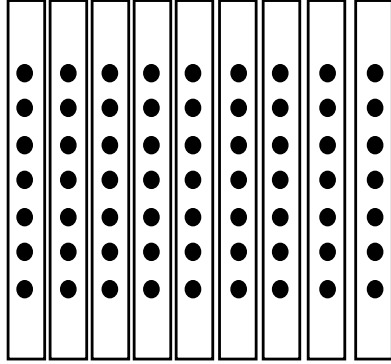
www.mathfactfluencyplayground.com

63

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EQUAL GROUP/ARRAY

ARRAY



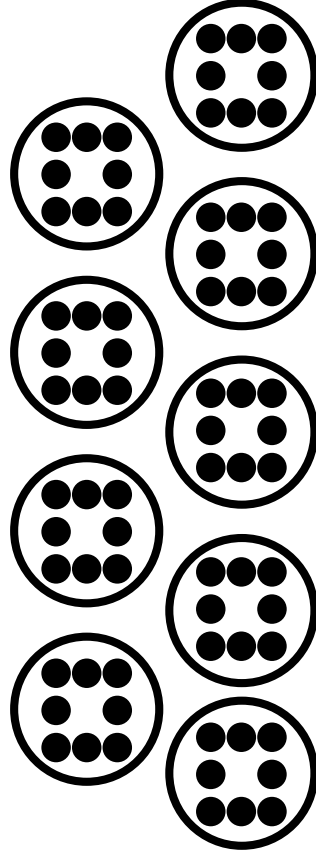
$$9 \times 7 = ?$$

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63

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EQUAL GROUPS



$$9 \times 8 = ?$$

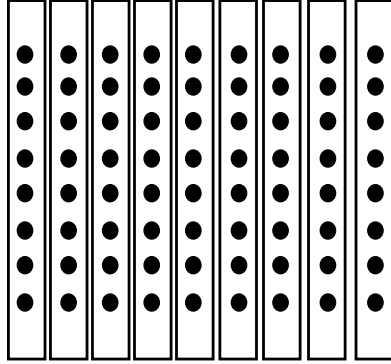
www.mathfactfluencyplayground.com

72

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



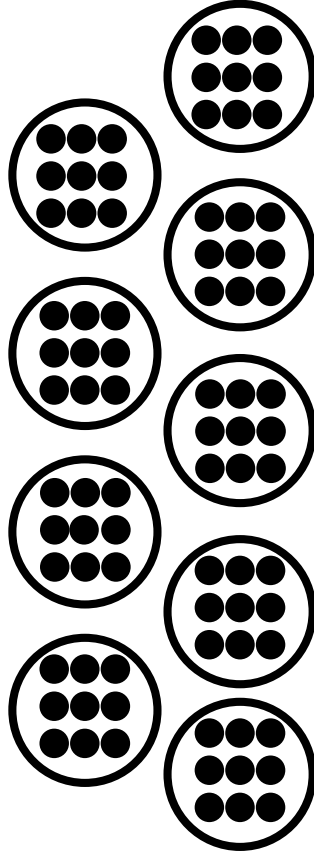
$$9 \times 8 = ?$$

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72

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EQUAL GROUPS



$$9 \times 9 = ?$$

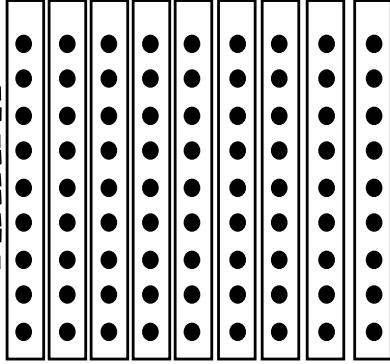
www.mathfactfluencyplayground.com

81

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



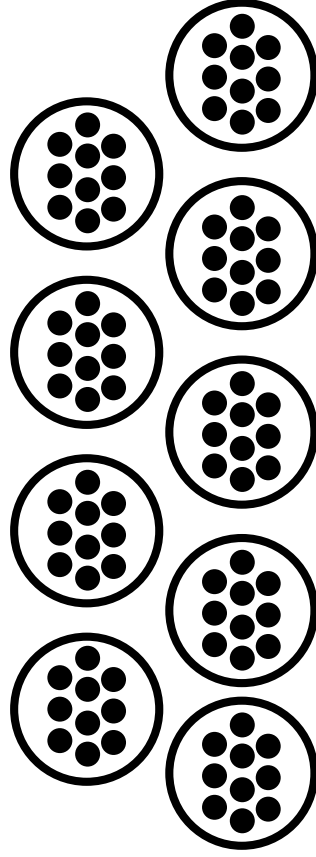
$$9 \times 9 = ?$$

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81

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EQUAL GROUPS



$$9 \times 10 = ?$$

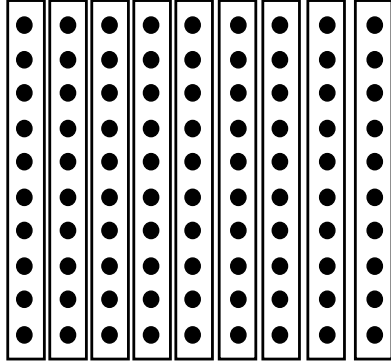
www.mathfactfluencyplayground.com

90

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EQUAL GROUP/ARRAY

ARRAY



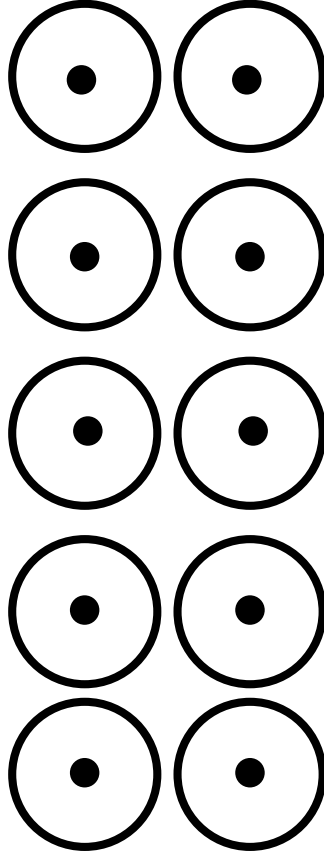
$$9 \times 10 = ?$$

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90

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EQUAL GROUPS



$$10 \times 1 = ?$$

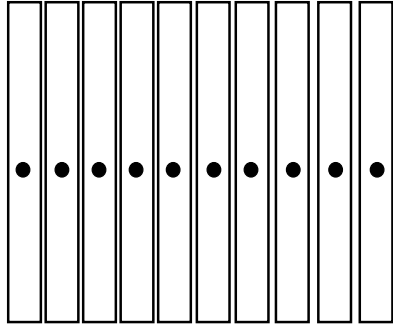
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10

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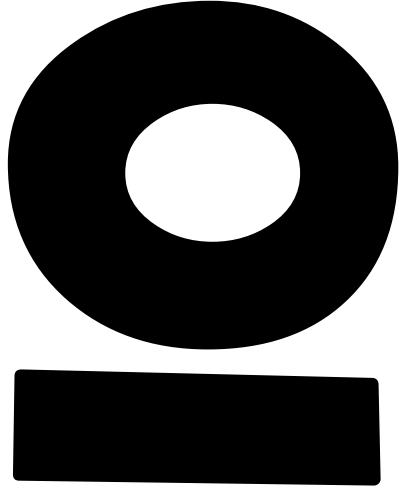
EQUAL GROUP/ARRAY

ARRAY



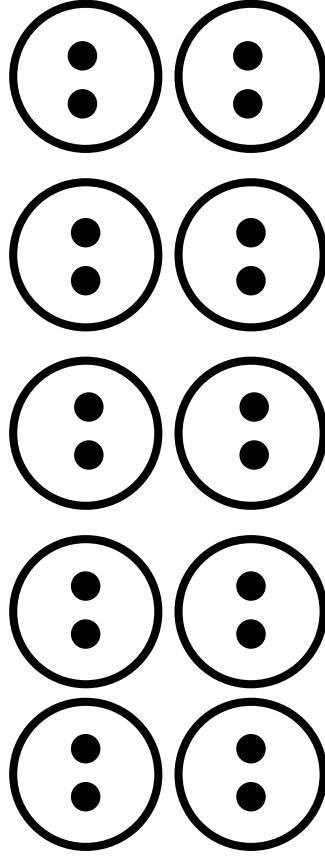
$$10 \times 1 = ?$$

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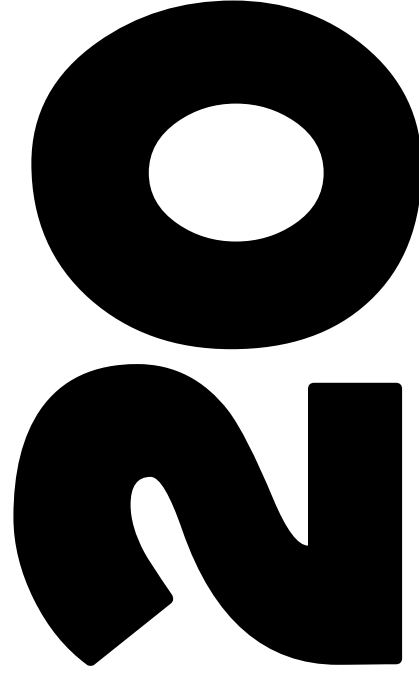
www.mathfactfluencyplayground.com

EQUAL GROUPS



$$10 \times 2 = ?$$

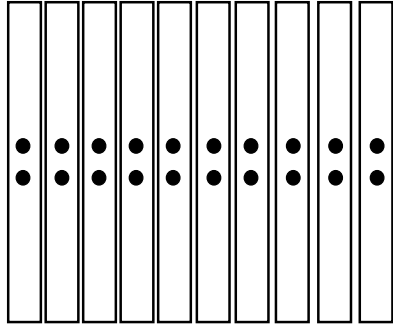
www.mathfactfluencyplayground.com



www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



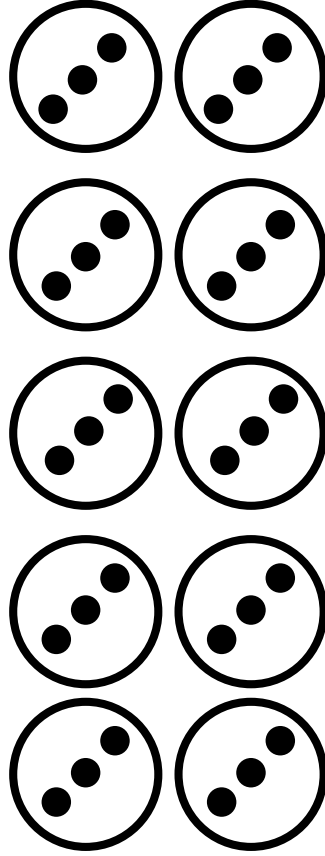
$$10 \times 2 = ?$$

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20

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EQUAL GROUPS



$$10 \times 3 = ?$$

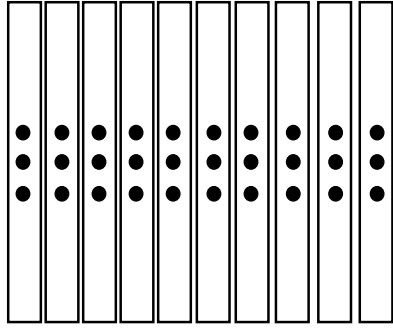
www.mathfactfluencyplayground.com

30

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EQUAL GROUP/ARRAY

ARRAY



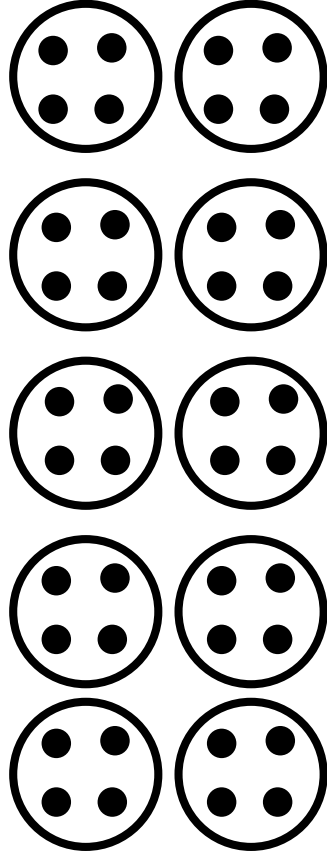
$$10 \times 3 = ?$$

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30

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EQUAL GROUPS



$$10 \times 4 = ?$$

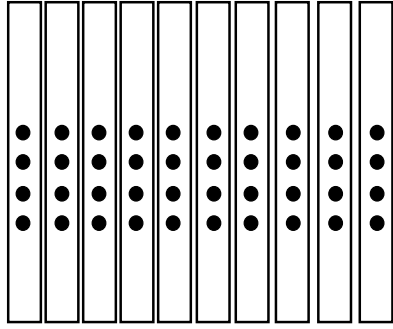
www.mathfactfluencyplayground.com

40

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



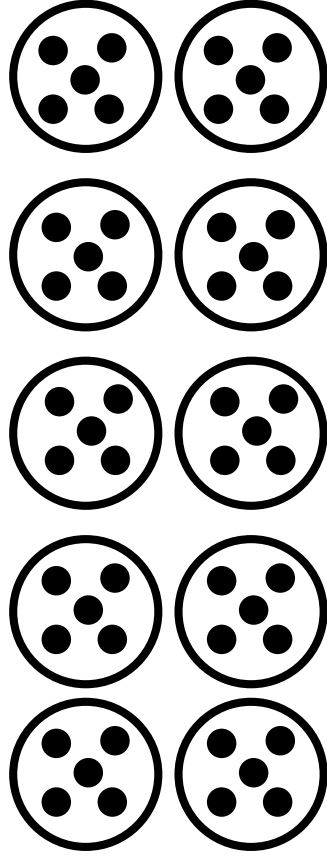
$$10 \times 4 = ?$$

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40

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EQUAL GROUPS



$$10 \times 5 = ?$$

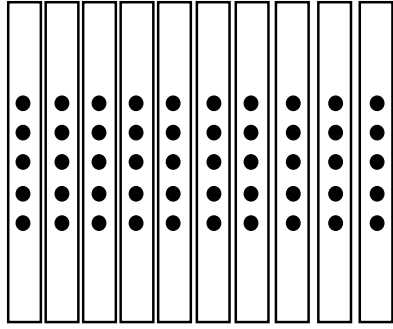
www.mathfactfluencyplayground.com

50

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EQUAL GROUP/ARRAY

ARRAY



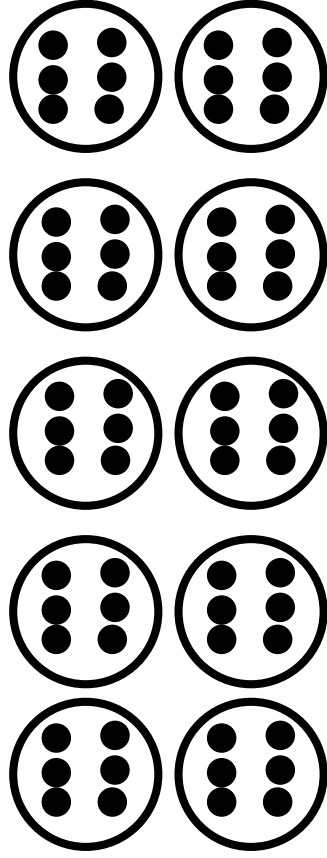
$$10 \times 5 = ?$$

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50

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EQUAL GROUPS



$$10 \times 6 = ?$$

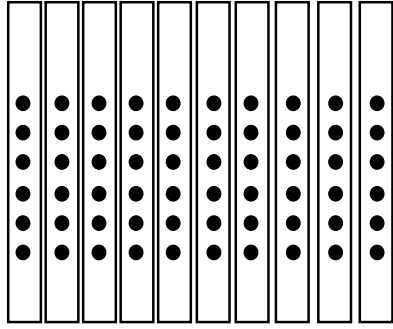
www.mathfactfluencyplayground.com

60

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EQUAL GROUP/ARRAY

ARRAY



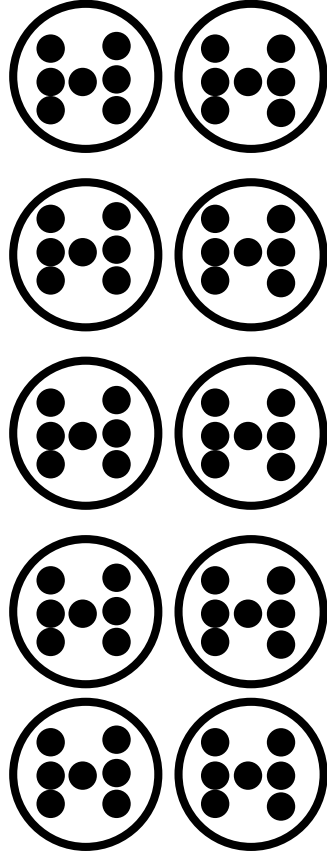
$$10 \times 6 = ?$$

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60

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EQUAL GROUPS



$$10 \times 7 = ?$$

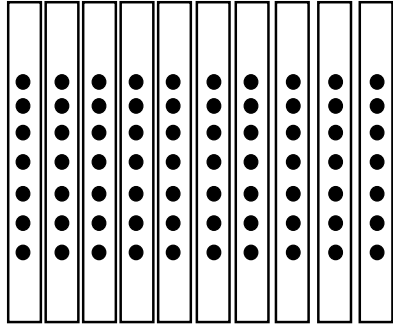
www.mathfactfluencyplayground.com

70

www.mathfactfluencyplayground.com

EQUAL GROUP/ARRAY

ARRAY



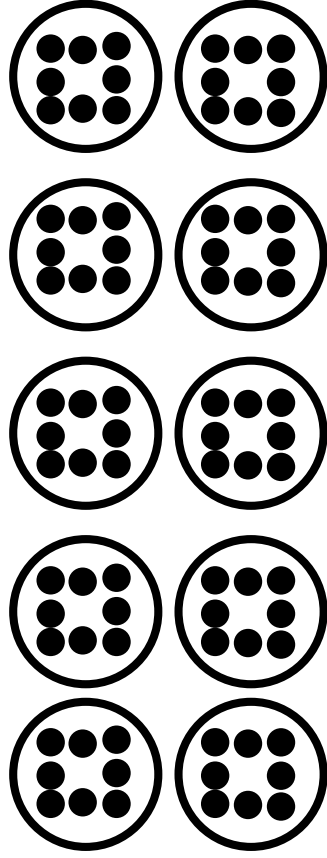
$$10 \times 7 = ?$$

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70

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EQUAL GROUPS



$$10 \times 8 = ?$$

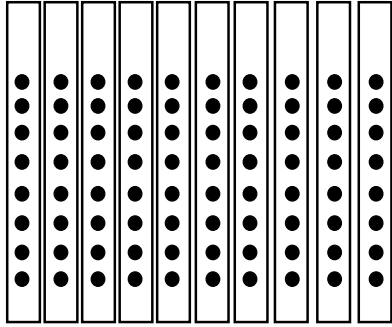
www.mathfactfluencyplayground.com

80

www.mathfactfluencyplayground.com

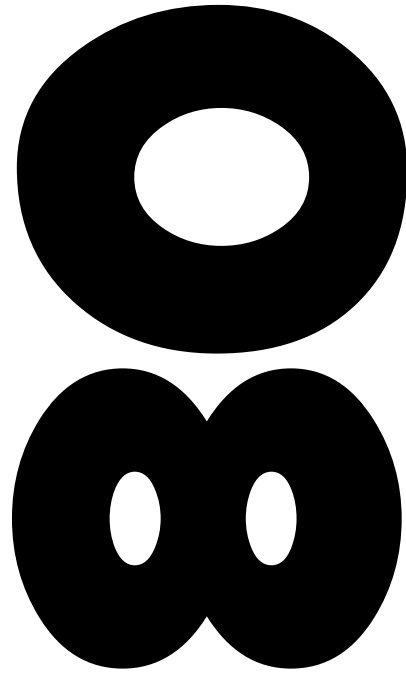
EQUAL GROUP/ARRAY

ARRAY



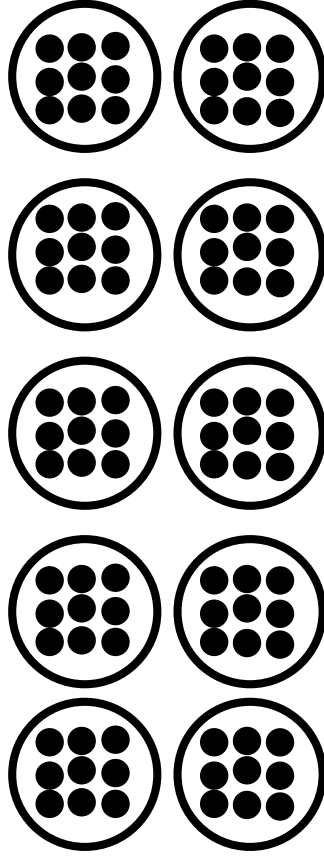
$$10 \times 8 = ?$$

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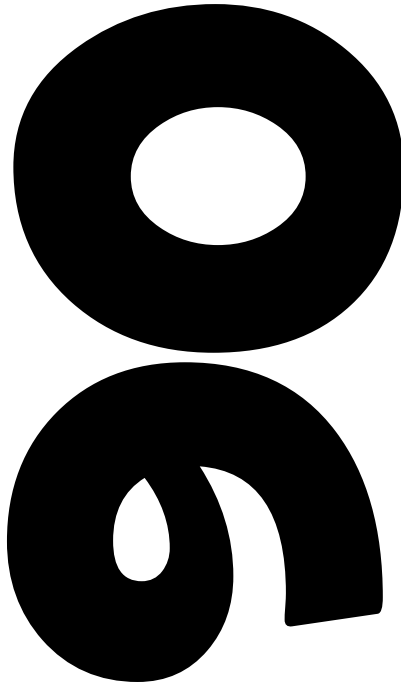
www.mathfactfluencyplayground.com

EQUAL GROUPS



$$10 \times 9 = ?$$

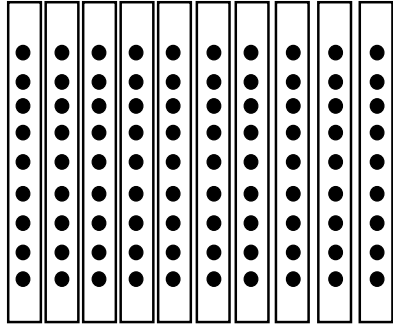
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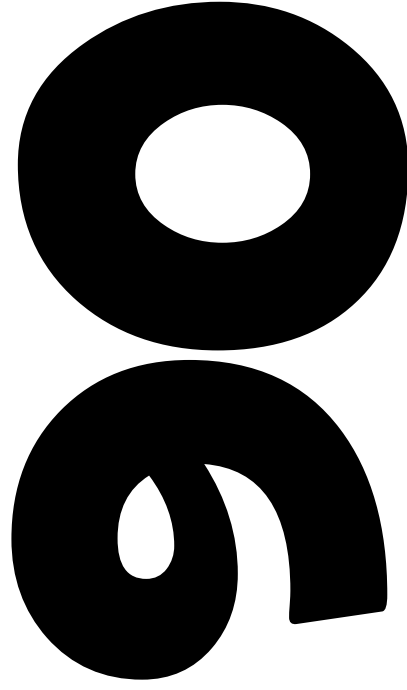
EQUAL GROUP/ARRAY

ARRAY



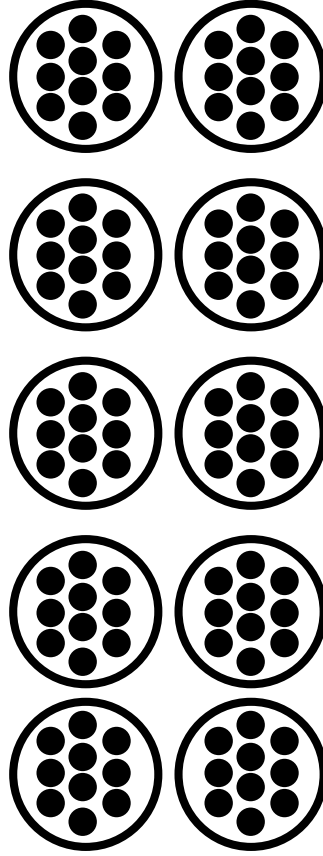
$$10 \times 9 = ?$$

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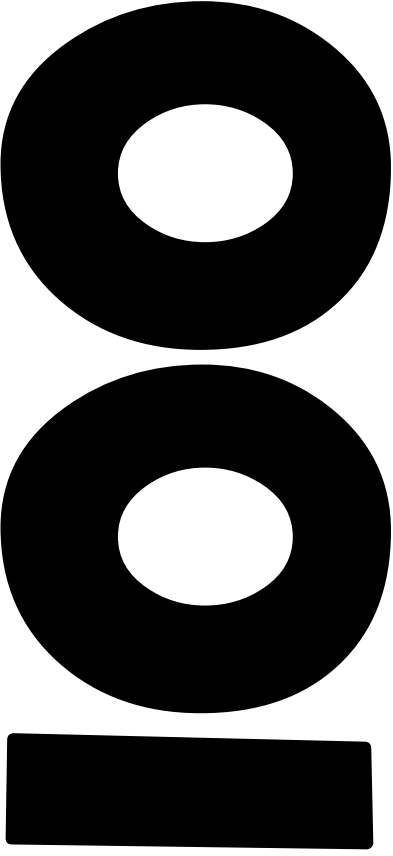
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EQUAL GROUPS



$$10 \times 10 = ?$$

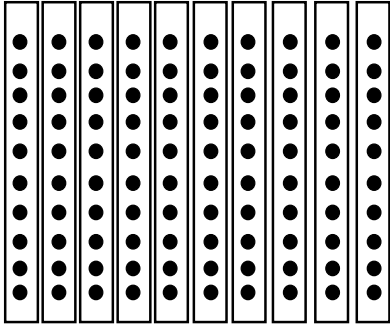
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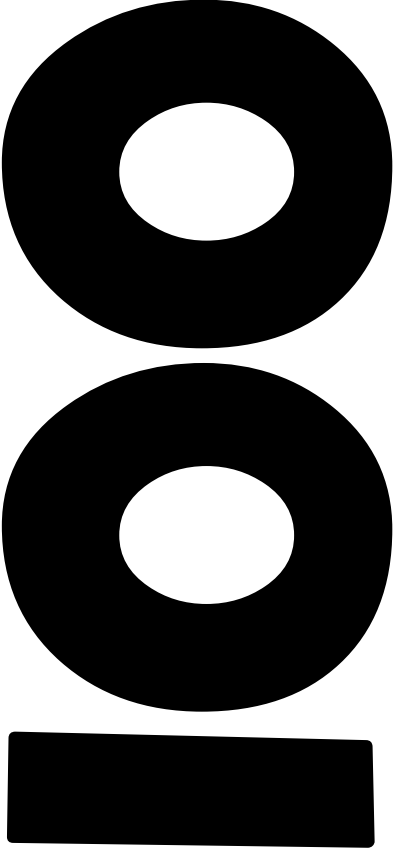
EQUAL GROUP/ARRAY

ARRAY



$$10 \times 10 = ?$$

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**FILL IN THE
MISSING NUMBER:
WORKING WITH
EQUALITIES**

Fill in the missing number: Working with Equalities

These cards focus on equality. They are another way to get students to work with the meaning of the equal sign and to practice their math facts in a way that they have to stop and think about the numbers. These cards are more difficult than the first level of missing number cards. They should be given after the first level (see cards before this set).

$6 \times 2 = 4 \times \underline{\quad}$	$6 \times 2 = 4 \times 3$
---	---------------------------

FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$6 \times 2 = 4 \times \underline{\quad}$$

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$$6 \times 2 = 4 \times 3$$

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$$5 \times 2 = \underline{\quad} \times 5$$

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$$5 \times 2 = 2 \times 5$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$5 \times 2 = 10 \times \underline{\quad}$$

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$$5 \times 2 = 10 \times 1$$

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$$\underline{\quad} \times 2 = 4 \times 4$$

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$$8 \times 2 = 4 \times 4$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$4 \times 5 = 2 \times \underline{\quad}$$

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$$4 \times 5 = 2 \times 10$$

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$$6 \times \underline{\quad} = 2 \times 9$$

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$$6 \times 3 = 2 \times 9$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$3 \times 10 = \underline{\quad} \times 6$$

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$$3 \times 10 = 5 \times 6$$

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$$4 \times 3 = \underline{\quad} \times 6$$

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$$4 \times 3 = 2 \times 6$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$5 \times \underline{\quad} = 10 \times 4 \quad | \quad 5 \times 8 = 10 \times 4$$

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$$8 \times \underline{\quad} = 2 \times 4 \quad | \quad 8 \times 1 = 2 \times 4$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$\underline{\quad} \div 3 = 2 \times 1$$

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$$6 \div 3 = 2 \times 1$$

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$$8 \div 2 = 2 \times \underline{\quad}$$

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$$8 \div 2 = 2 \times 2$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$9 \div \underline{\quad} = 3 \times \underline{\quad} \quad 9 \div 3 = 3 \times \underline{\quad}$$

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$$12 \div 3 = \underline{\quad} \times 2 \quad 12 \div 3 = 2 \times \underline{\quad}$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$20 \div 4 = 5 \times \underline{\quad}$$

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$$20 \div 4 = 5 \times 1$$

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$$30 \div 3 = 20 \div \underline{\quad}$$

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$$30 \div 3 = 20 \div 2$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$16 \div 4 = 2 \times \underline{\quad}$$

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$$16 \div 4 = 2 \times 2$$

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$$21 \div 3 = 14 \div \underline{\quad}$$

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$$21 \div 3 = 14 \div 2$$

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FILL IN THE MISSING NUMBER: WORKING WITH EQUALITIES

$$24 \div 3 = 2 \times \underline{\quad}$$

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$$24 \div 3 = 2 \times 4$$

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$$27 \div 9 = 3 \times \underline{\quad}$$

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$$27 \div 9 = 3 \times 1$$

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**BE SURE TO CHECK OUT OTHER
FLUENCY ACTIVITIES AT
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Try Addition or Addition Board Games...

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Fluency Doesn't Just Happen. It is a well planned journey!



A GIFT FOR YOU

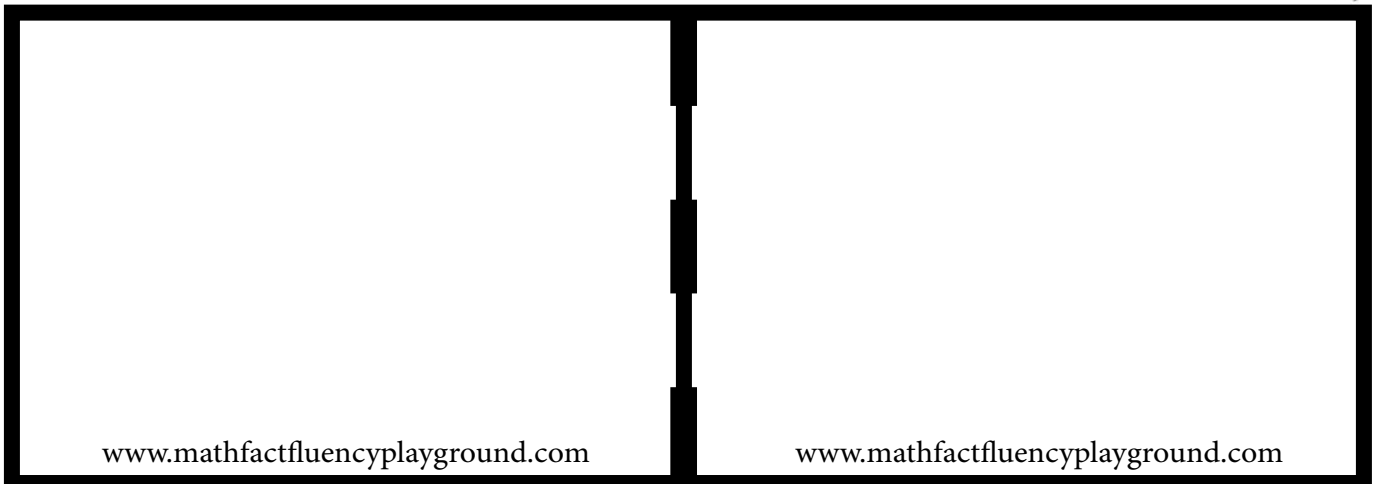
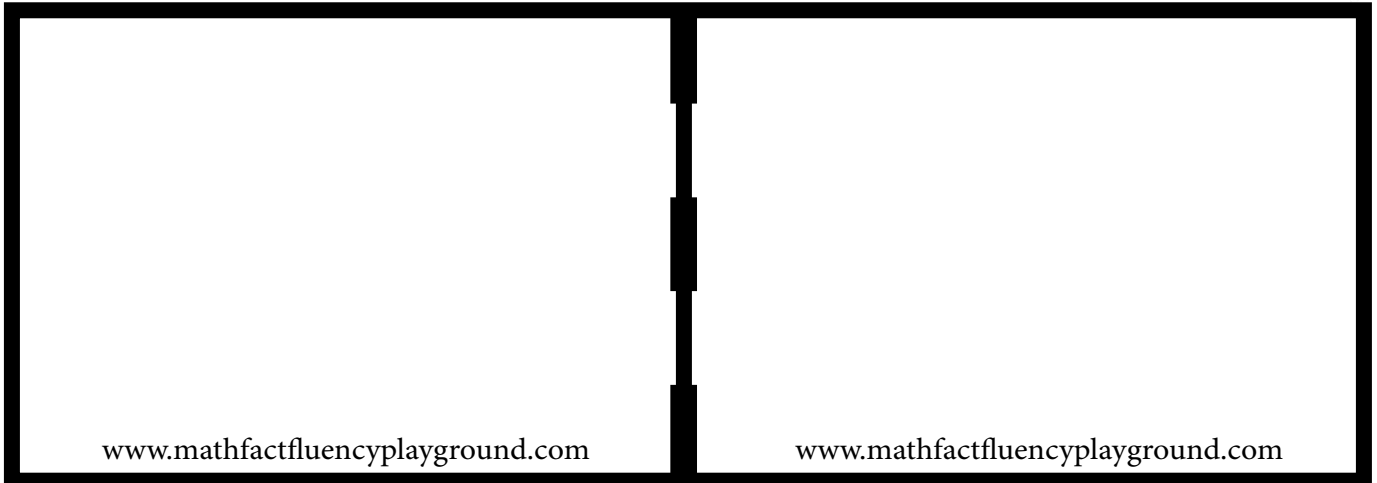
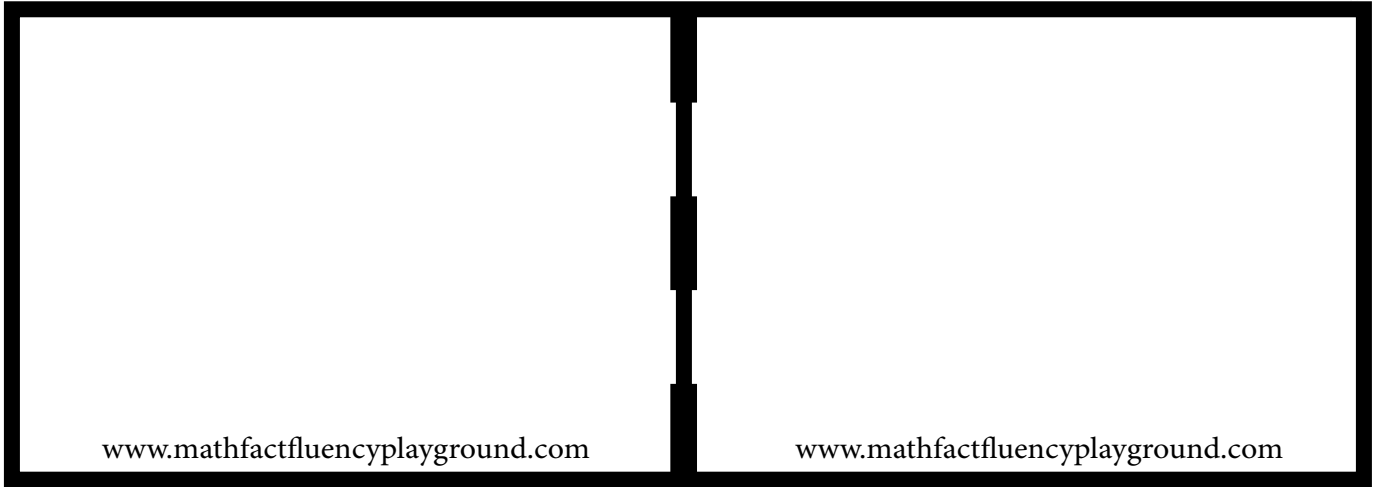
Thank you so much for buying this book!
We have a gift for your child. Use this code to get
some **EXTRA FREE GOODIES** for them to download
and continue practicing their math facts!

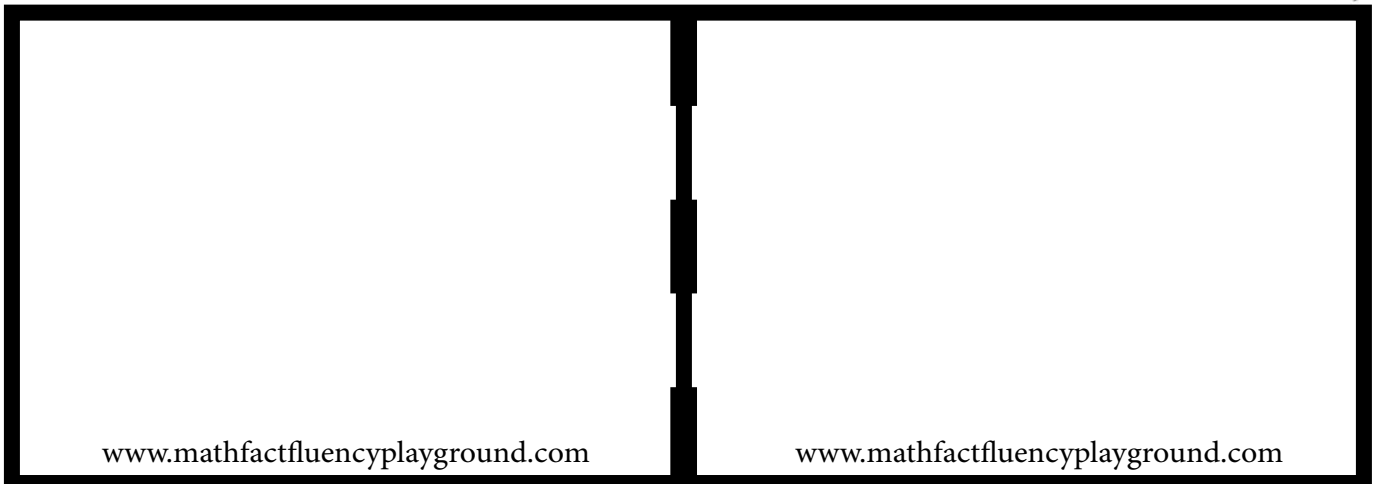
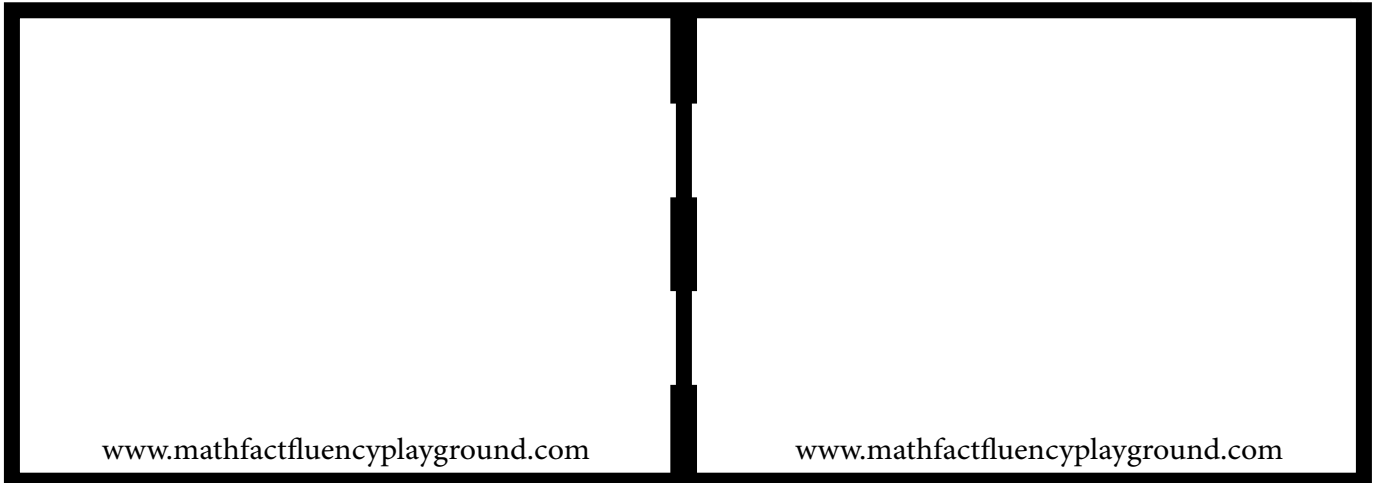
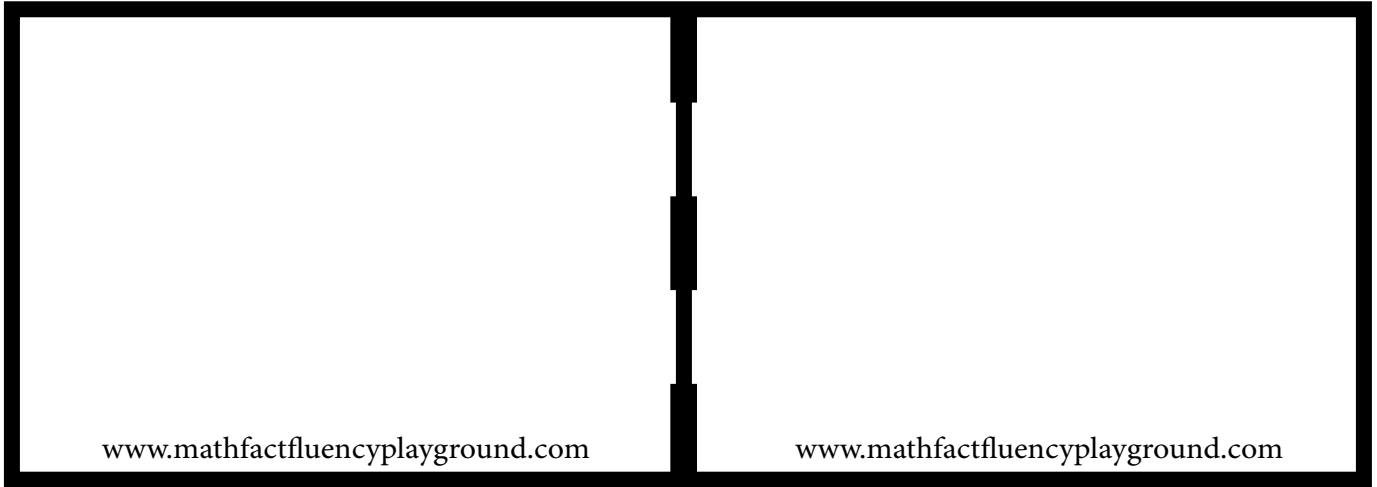
Open the camera on your phone
(just like if you are going to take a picture.)
Hold the phone over the qr code (picture
here on the right.) Tap the link that appears
on your screen for your free download.

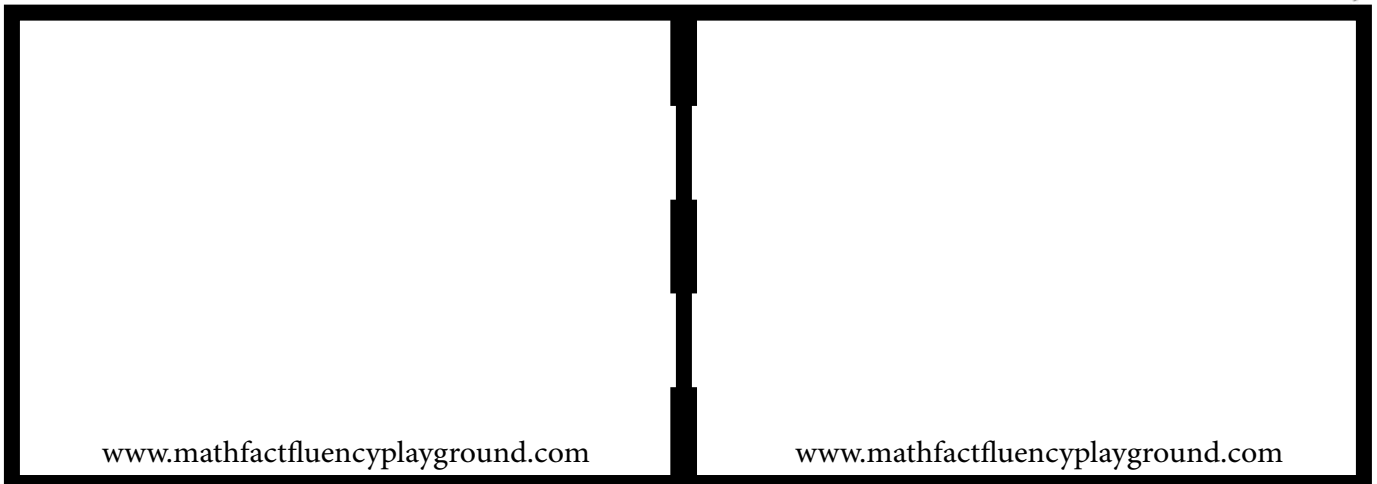
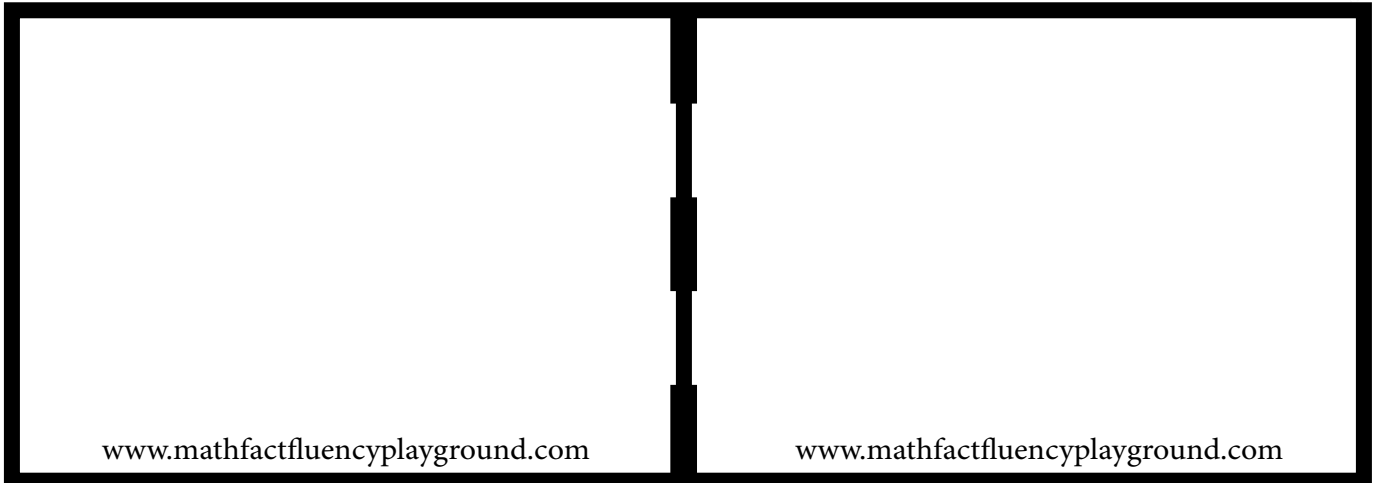
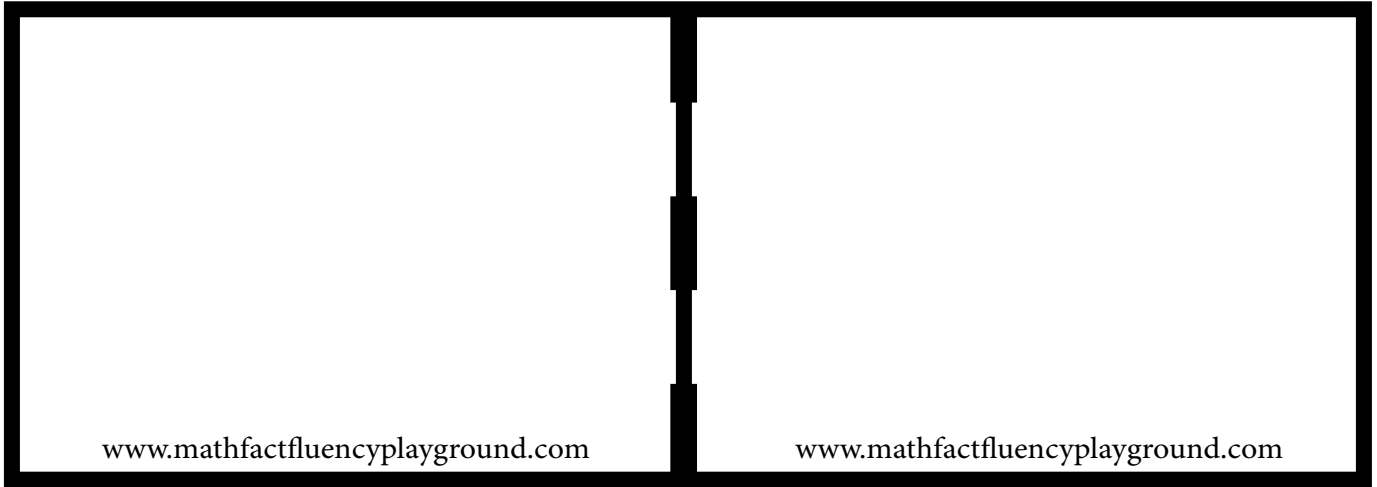


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MAKE YOUR OWN MATH FLASHCARDS





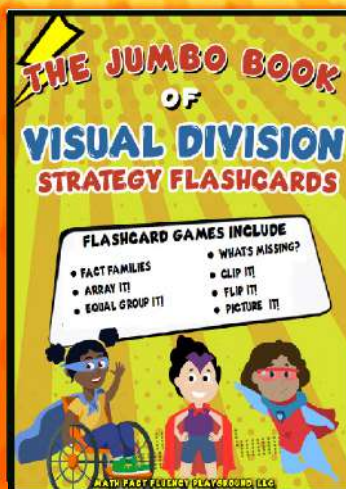
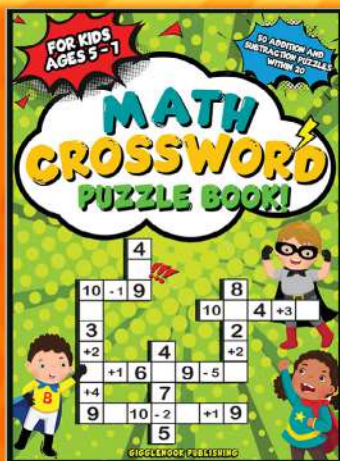




This activity book was created to help students with their basic multiplication facts.

It is a fun and engaging way for students to practice their fundamental math facts. Purposeful, intentional practice read over time helps students to learn their facts.

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