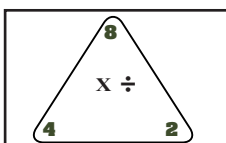


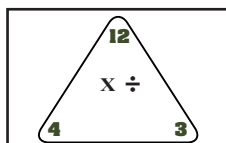
DIVIDING by 4

WORK BOOKLET ANSWER KEY

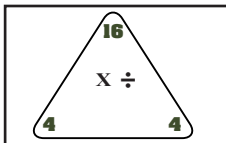
TRIANGLE FACT FAMILY



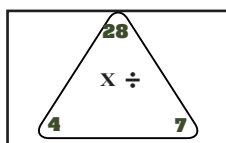
$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____



$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____

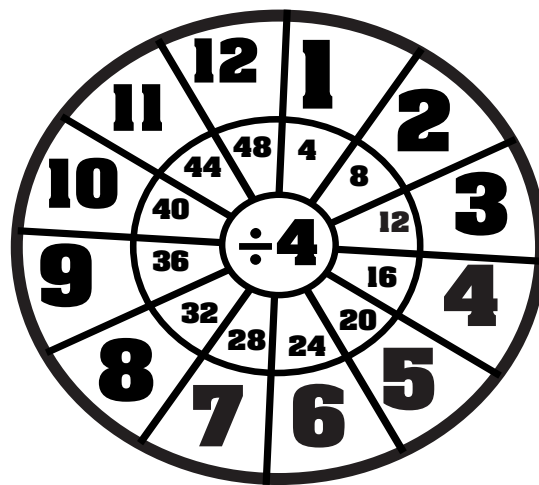


$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____

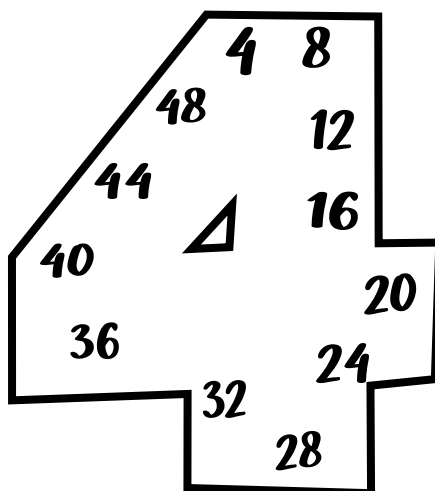


$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____

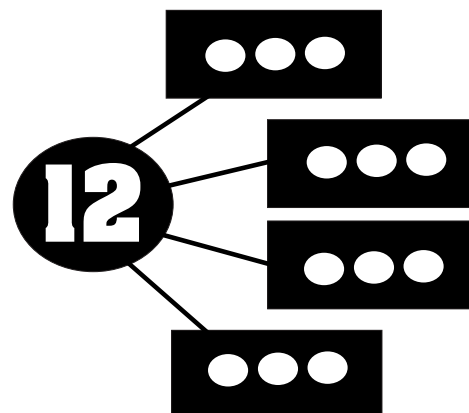
DIVISION WHEELS



MULTIPLES OF 4



Division Strategies: PARTITION

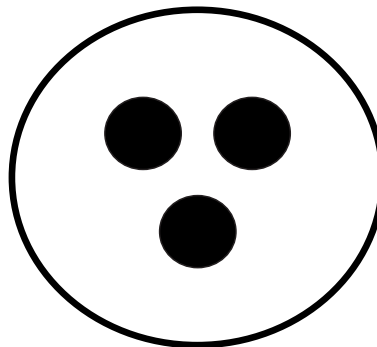
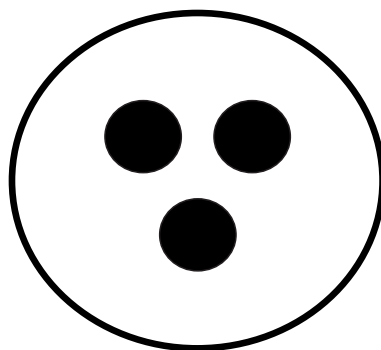
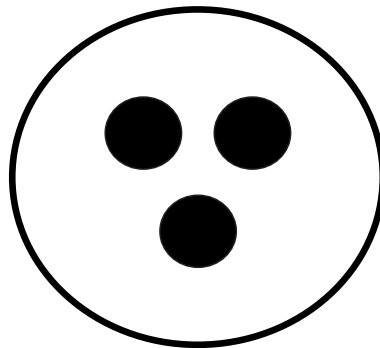
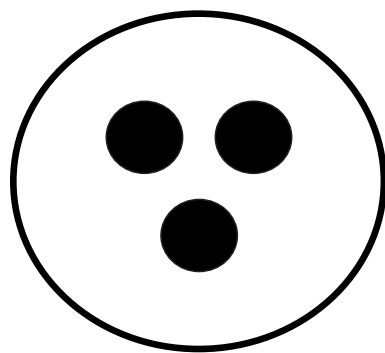


$$12 \div 4 = 3$$

STRATEGY POSTER

When dividing by **4**,
think multiplication! **$4 \times ? =$**

$$12 \div 4 = 3$$



Hint : think multiplication! $4 \times ? = 12$

DIVISION

$$16 \div 4 = 4$$



DIVIDEND

DIVISOR

QUOTIENT

MULTIPLES OF FOUR

4



8



12



16



20



24



28



32



36



40



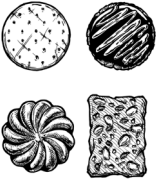
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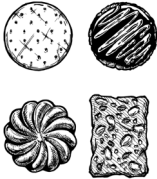


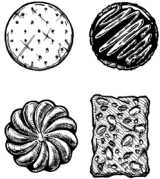
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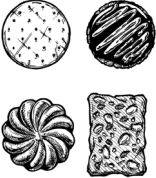


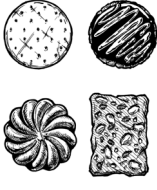
MULTIPLES OF FOUR

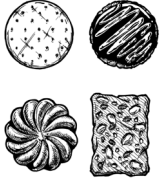
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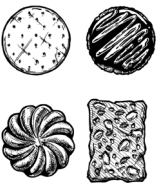
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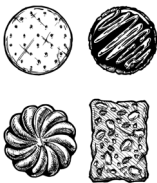
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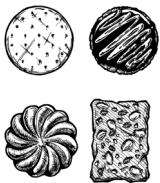
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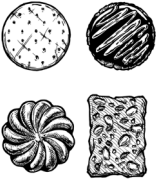
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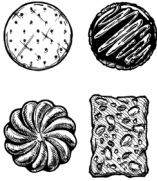
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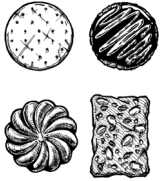
28 

32 

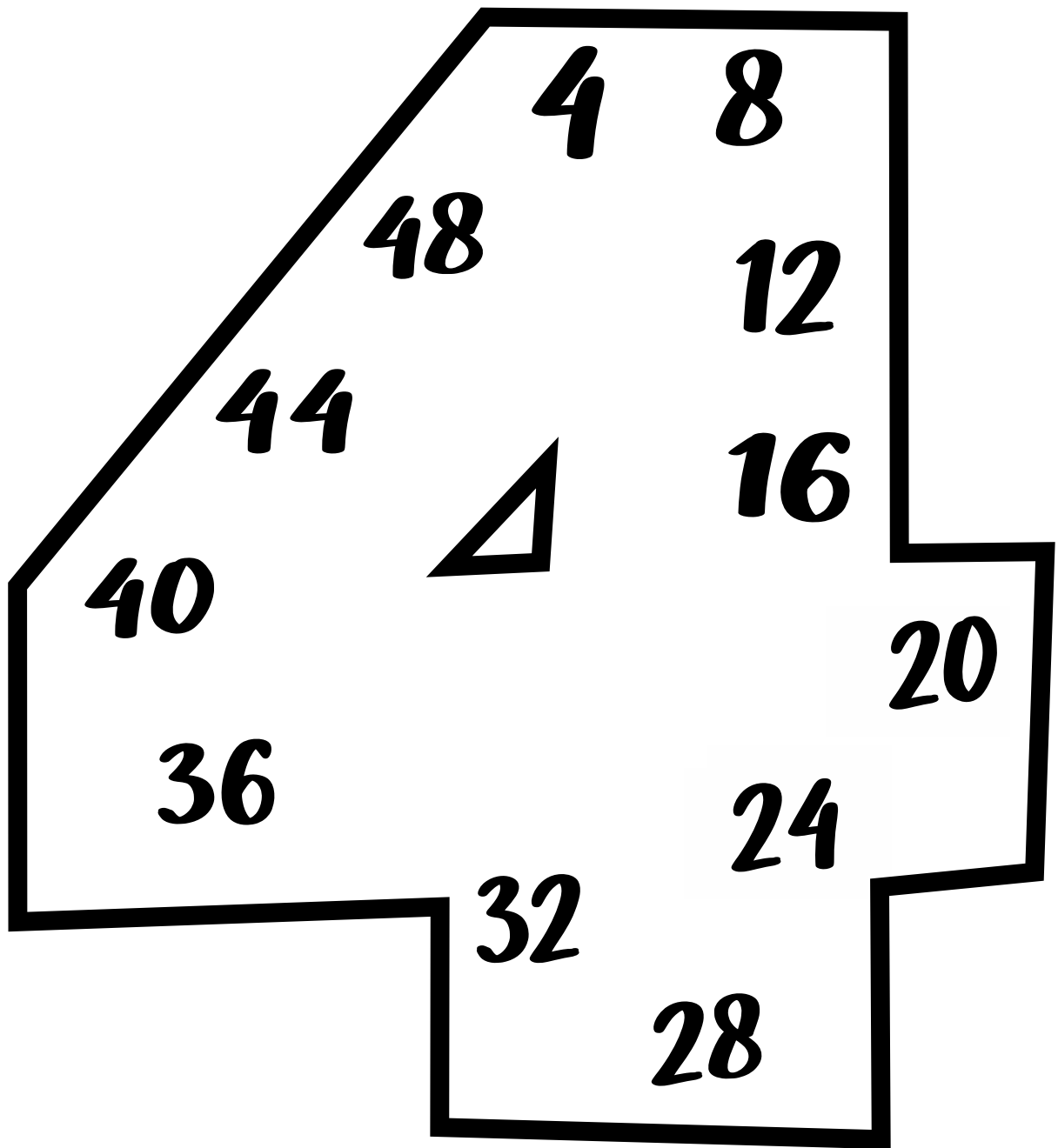
36 

40 

44 

48 

MULTIPLES OF 4



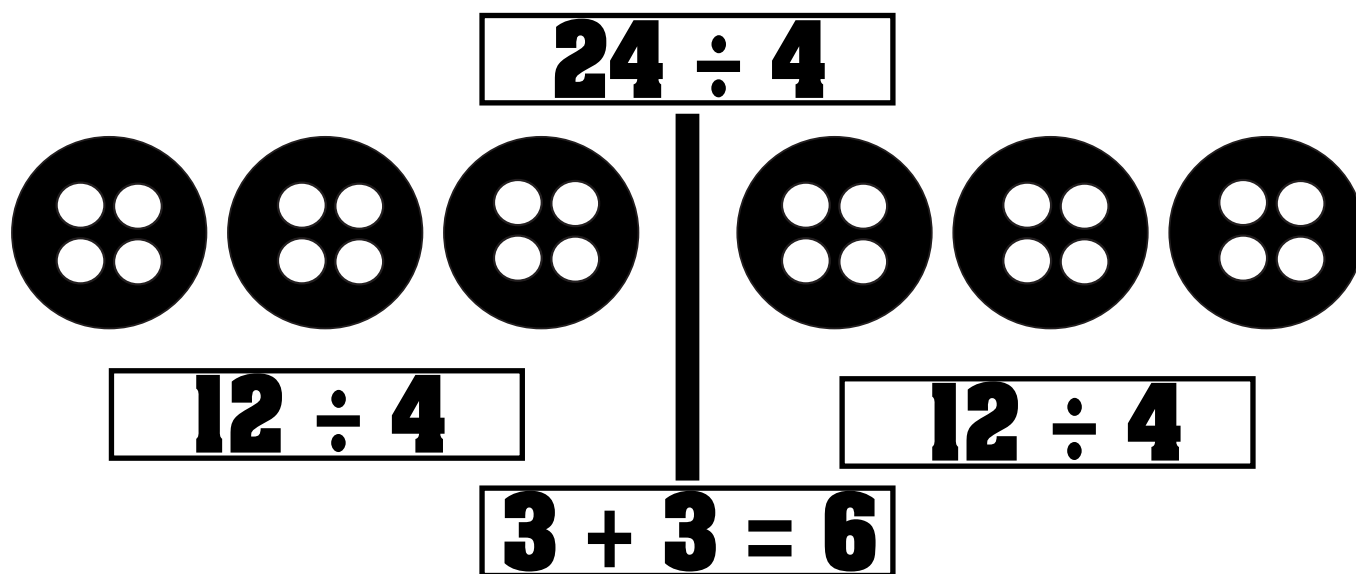


VOCABULARY

DISTRIBUTIVE PROPERTY

There were 24 marbles. I put 4 in each bag. How many bags did I use?

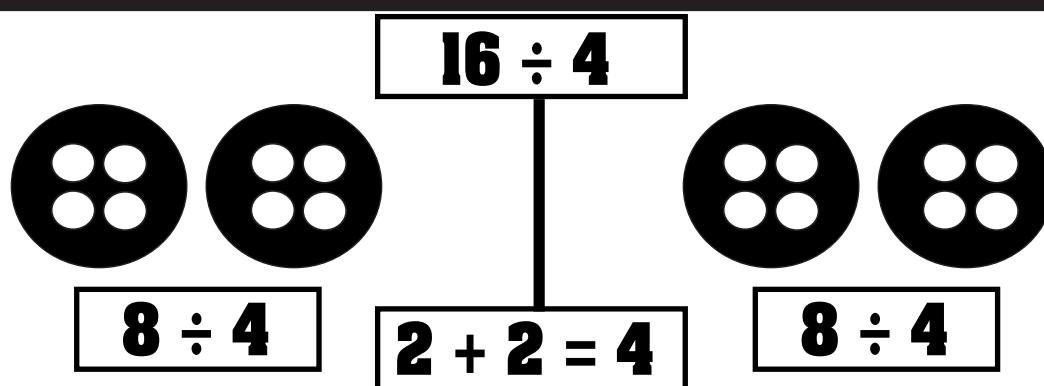
$$24 \div 4 = (12 \div 4) + (12 \div 4) = 4 + 4 = 8$$



MODEL THE FACT

There were 16 marbles. I put 4 in each bag. How many bags did I use?

$$16 \div 4 = (8 \div 4) + (8 \div 4)$$



IDENTITY PROPERTY

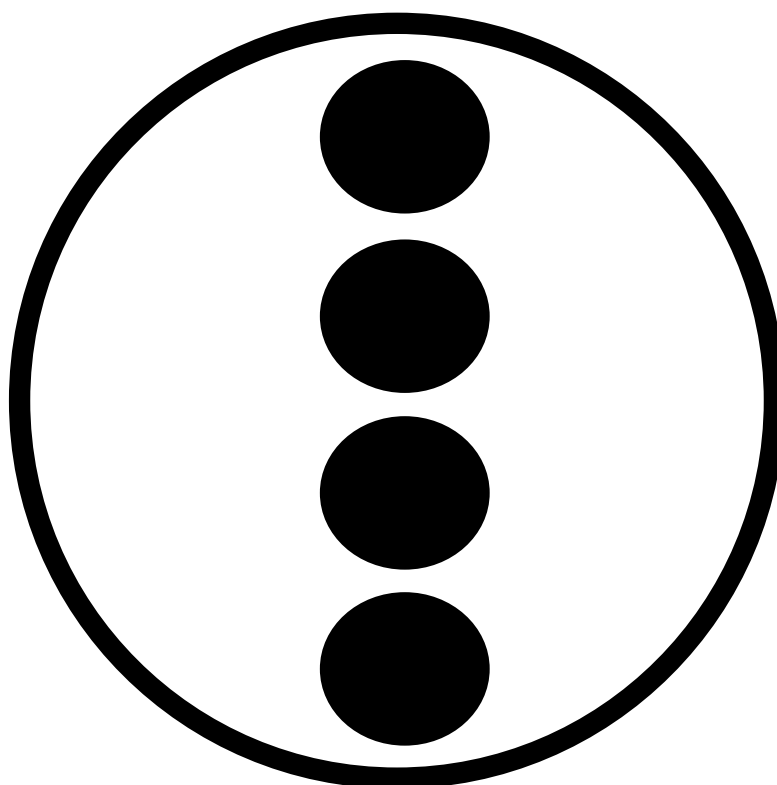
DIVIDING A NUMBER BY 1

$$4 \div 1 = 4$$

$$16 \div 1$$

$$12 \div 1$$

$$8 \div 1$$



**Hint : It's always the number when
you divide by 1.**

ZERO PROPERTY

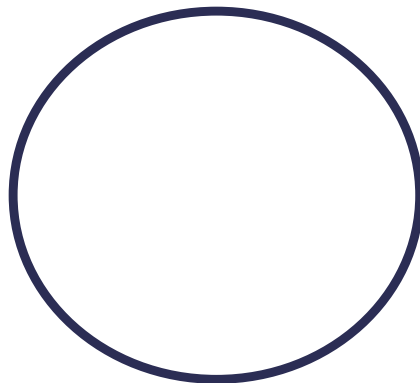
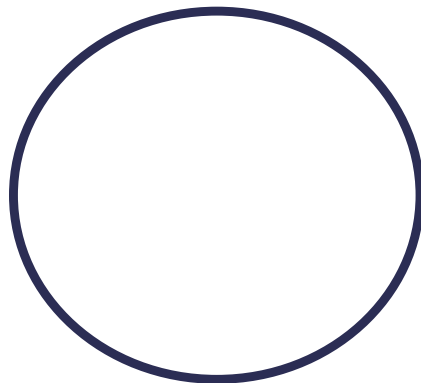
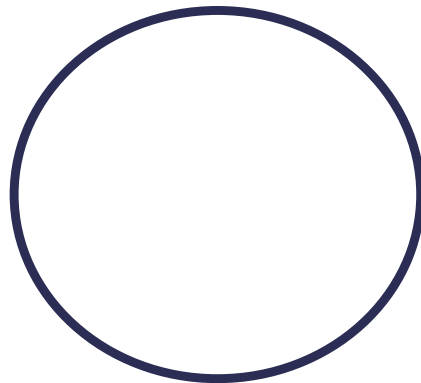
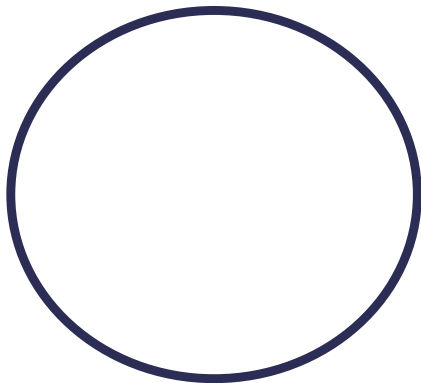
DIVIDING 0 BY A NUMBER

$$0 \div 4 = 0$$

$$0 \div 2$$

$$0 \div 10$$

$$0 \div 1$$



Hint : It's always 0 when you divide zero.

DIVISION BY ITSELF PROPERTY

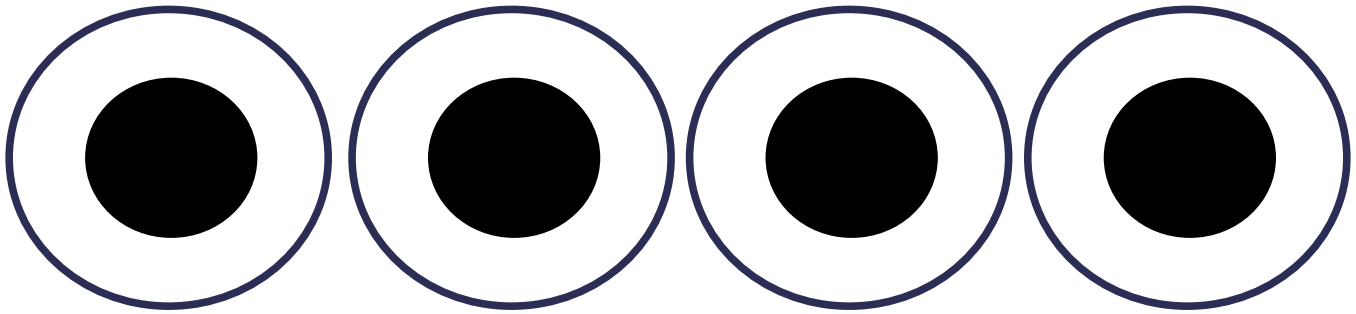
DIVIDING A NUMBER BY ITSELF

$$4 \div 4 = 1$$

$$3 \div 3$$

$$7 \div 7$$

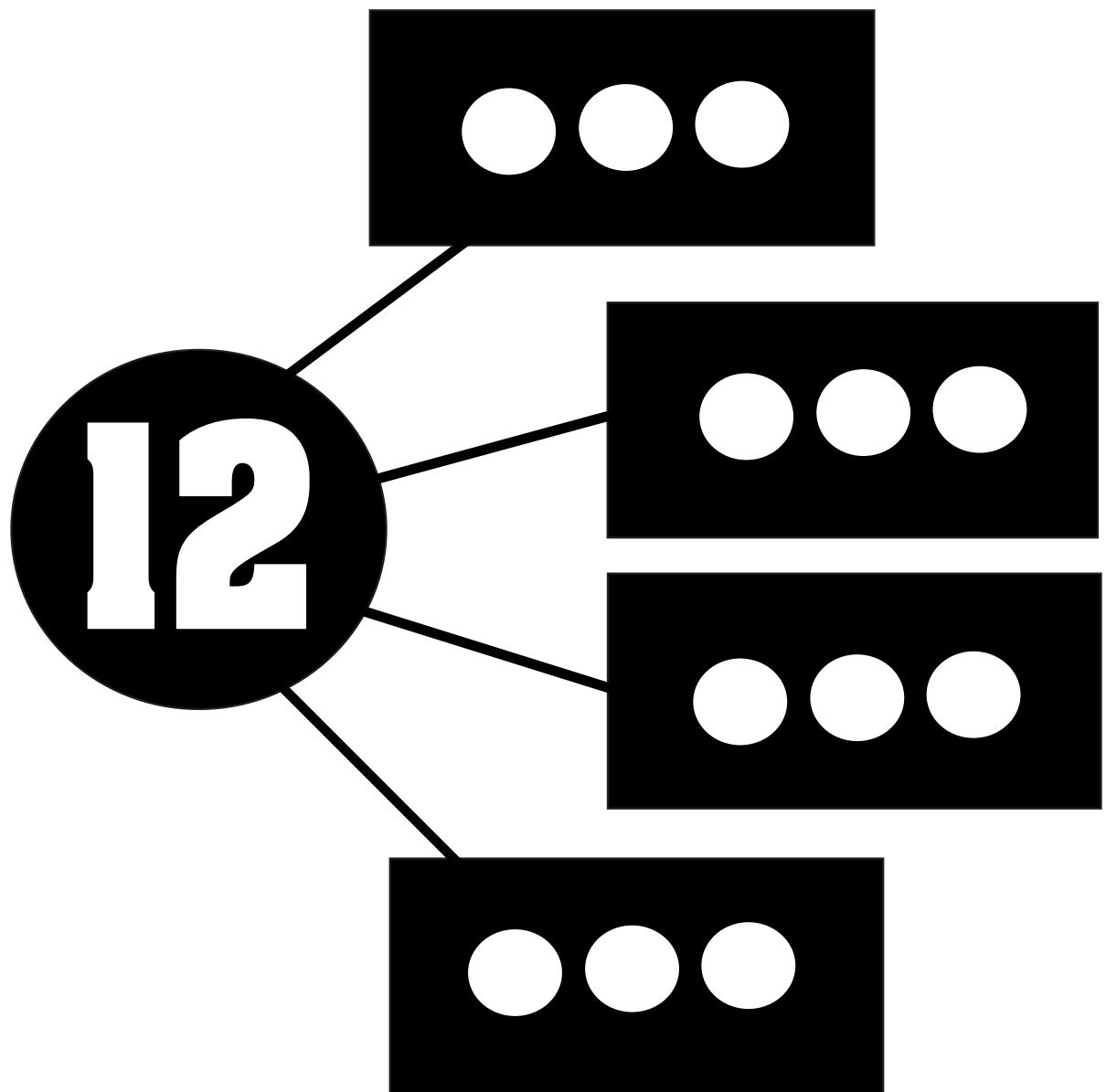
$$8 \div 8$$



Hint : It's always 1 when you divide a number by itself.

Division Strategies:

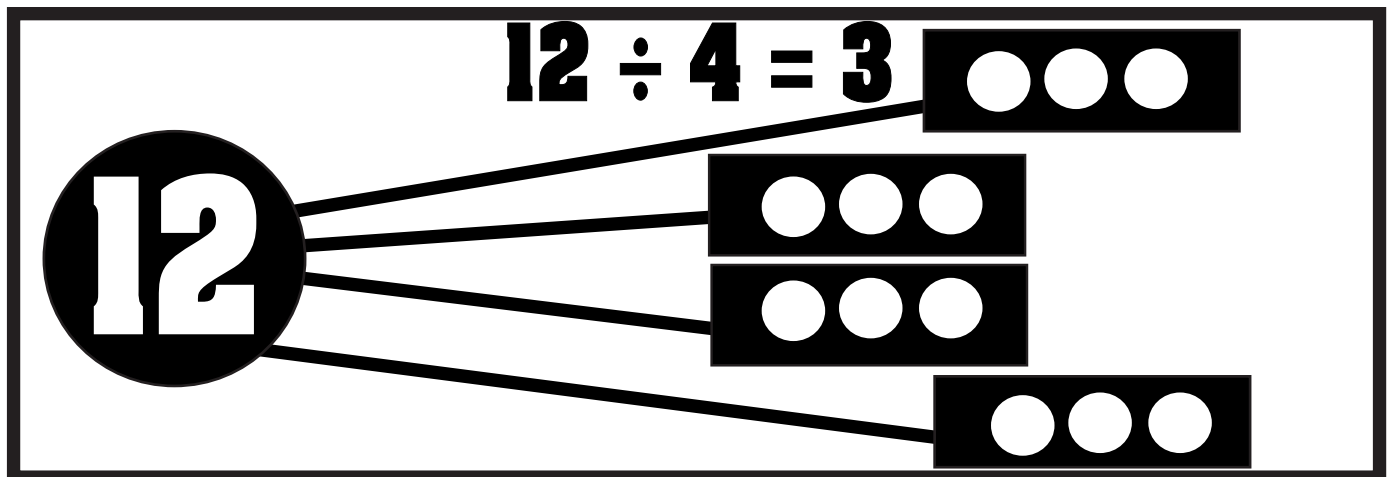
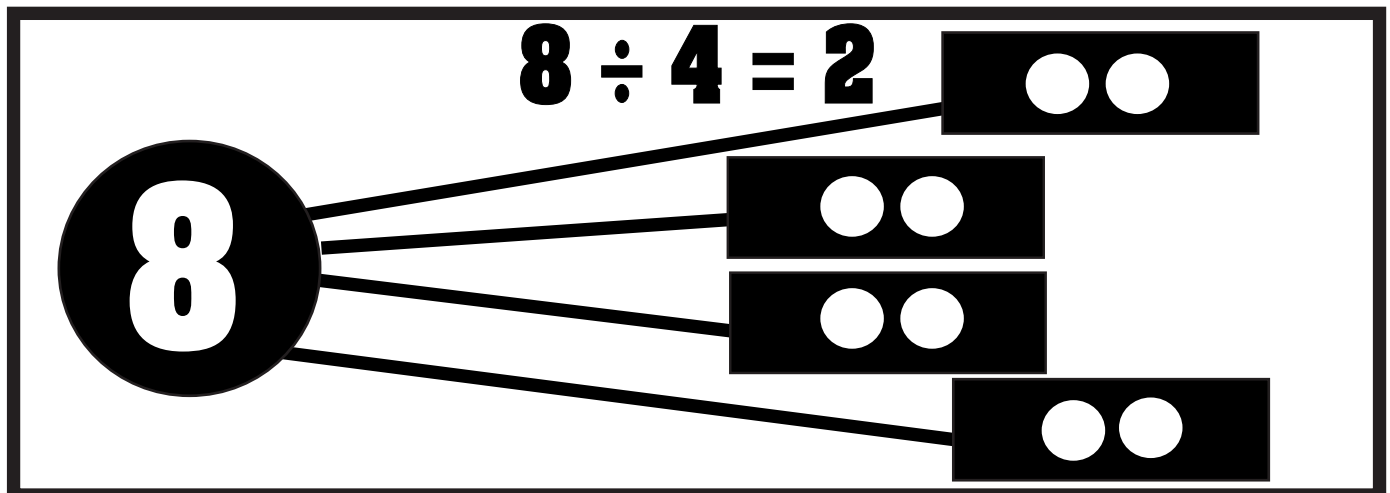
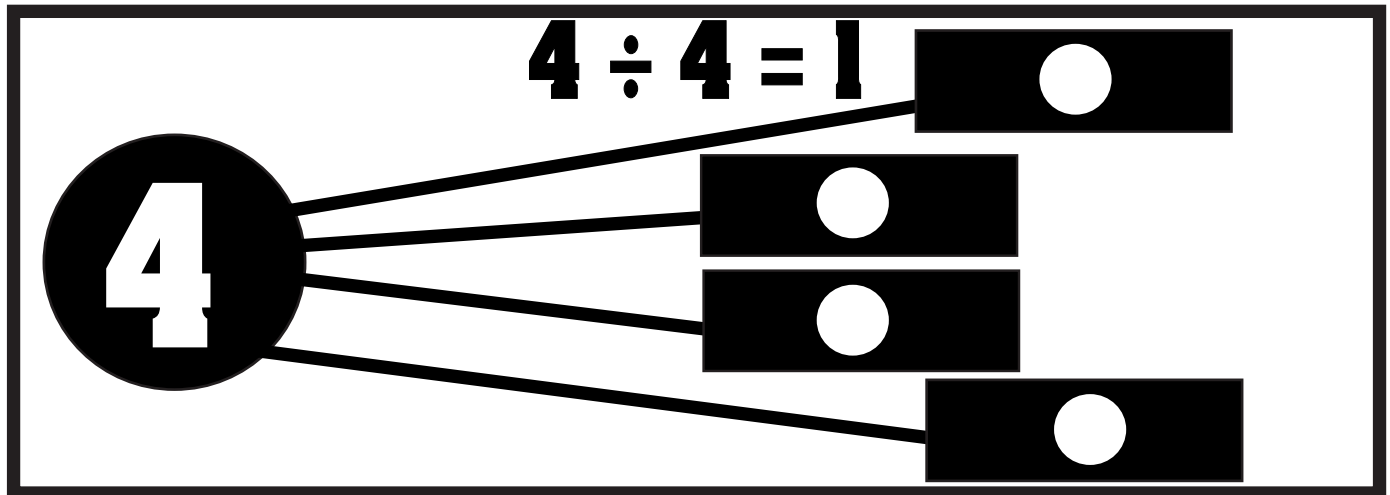
PARTITION



$$12 \div 4 = 3$$

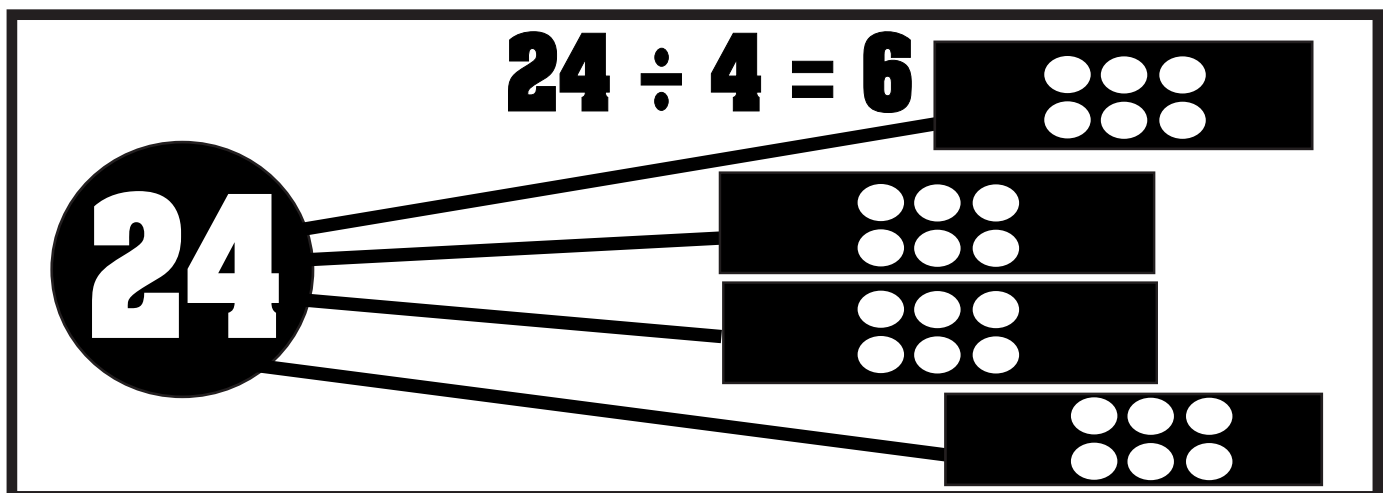
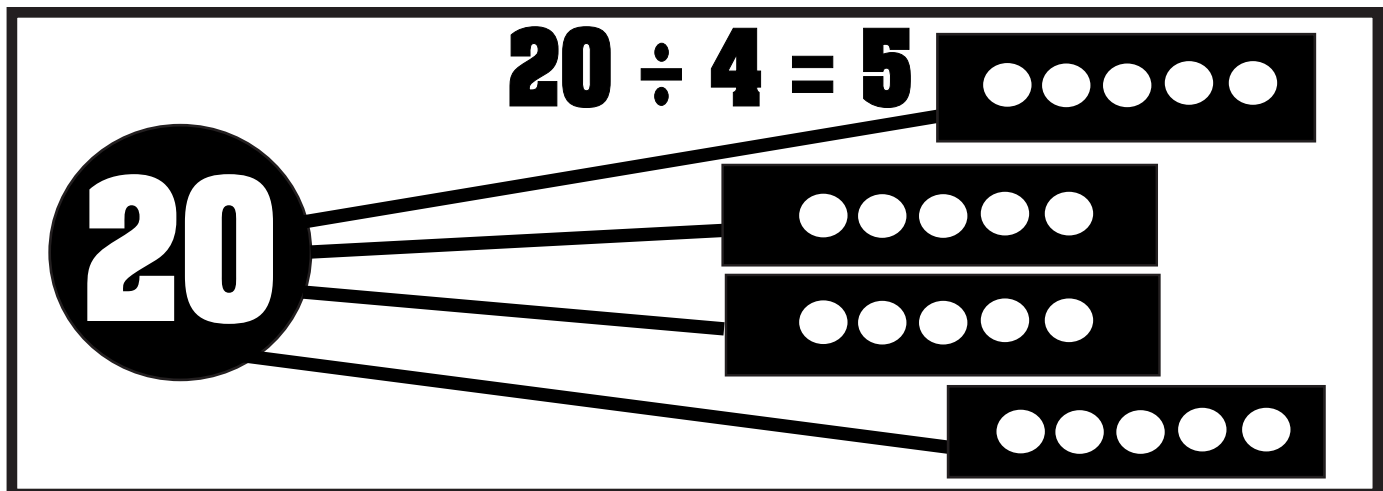
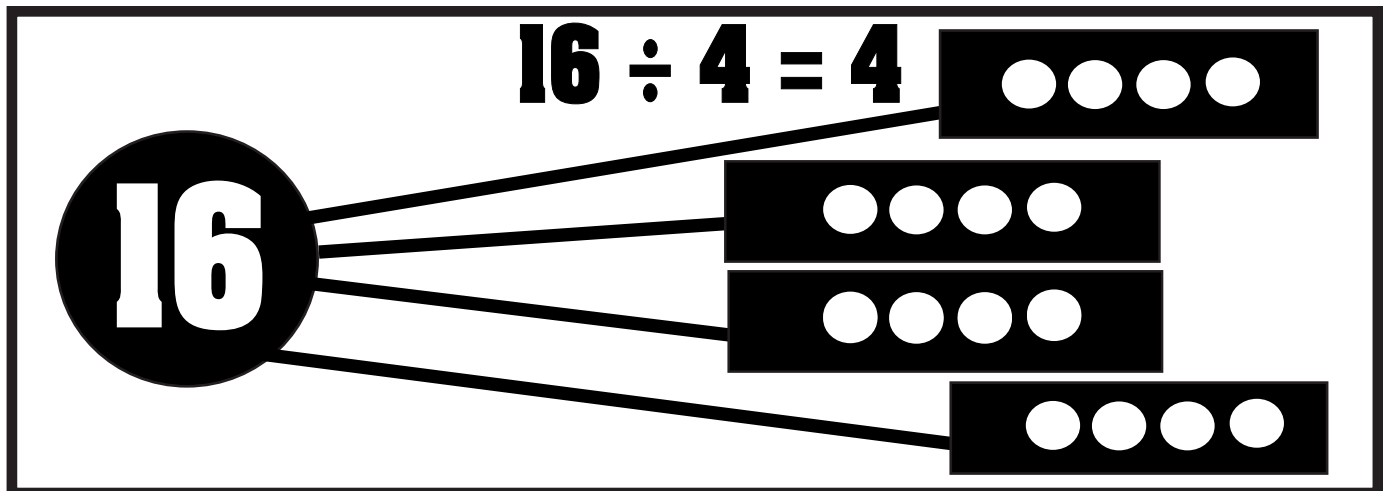
Division Strategies:

PARTITION



Division Strategies:

PARTITION

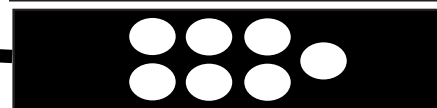
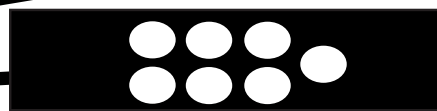
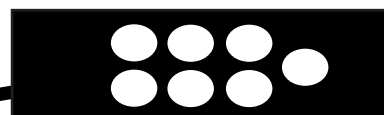


Division Strategies:

PARTITION

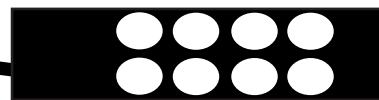
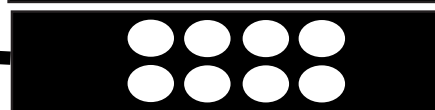
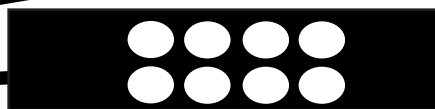
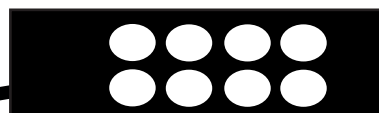
$$28 \div 4 = 7$$

28



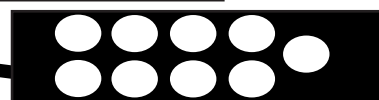
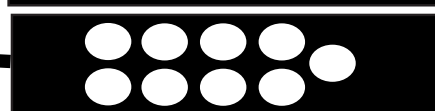
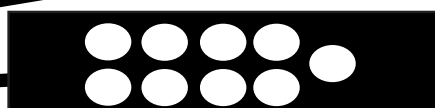
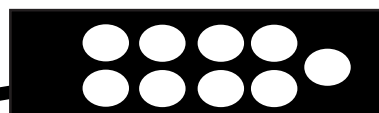
$$32 \div 4 = 8$$

32



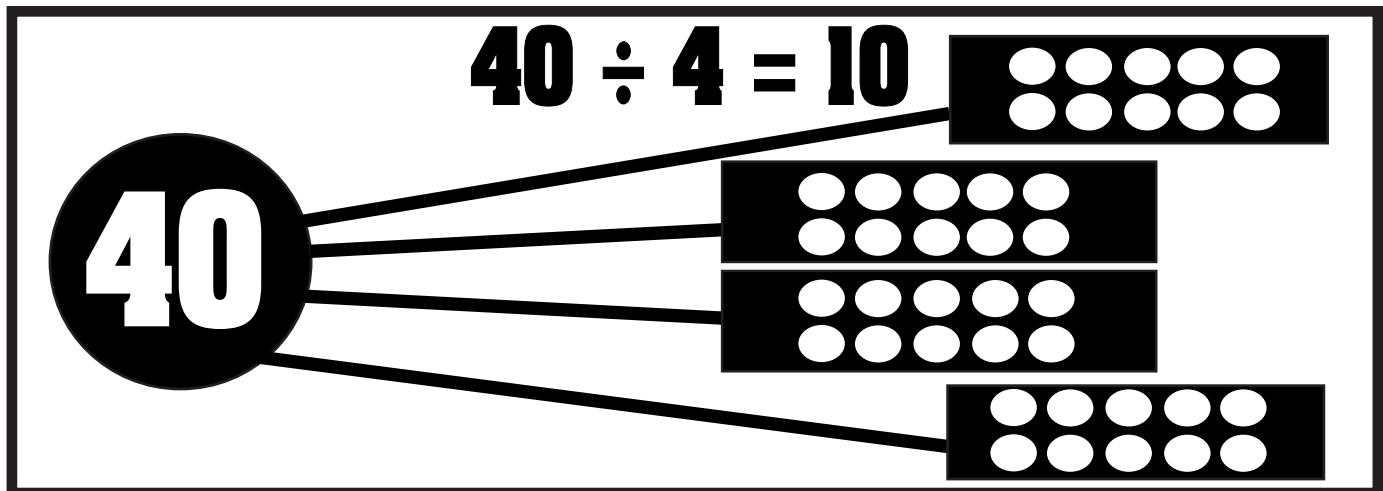
$$36 \div 4 = 9$$

36



Division Strategies:

PARTITION



FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

$$32 \div 4 = \underline{8}$$

think

$$4 \times \underline{8} = 32$$

$$4 \div 4 = \underline{1}$$

think

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

$$12 \div 4 = \underline{3}$$

think

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

$$36 \div 4 = \underline{9}$$

think

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

Division Strategies:

RELATED FACT

$$16 \div 4 = \underline{4}$$

think

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

$$28 \div 4 = \underline{7}$$

think

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

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

think

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

$$24 \div 4 = \underline{6}$$

think

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

Division Strategies:

RELATED FACT

$$8 \div 4 = \underline{2}$$

think

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

$$36 \div 4 = \underline{9}$$

think

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

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

think

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

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

think

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

Division Strategies:

REPEATED SUBTRACTION

$$24 \div 4 = ?$$

$$24 - 4 = 20$$

$$20 - 4 = 16$$

$$16 - 4 = 12$$

$$12 - 4 = 8$$

$$8 - 4 = 4$$

$$4 - 4 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$24 \div 4 = ?$$

$$24 - \underline{4} = 20$$

$$\underline{20} - 4 = 16$$

$$\underline{16} - 4 = 12$$

$$12 - \underline{4} = 8$$

$$8 - \underline{4} = 4$$

$$\underline{4} - 4 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$28 \div 4 = ?$$

$$28 - \underline{4} = 24$$

$$24 - \underline{4} = 20$$

$$\underline{20} - 4 = 16$$

$$\underline{16} - 4 = 12$$

$$12 - \underline{4} = 8$$

$$8 - \underline{4} = 4$$

$$\underline{4} - 4 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$20 \div 4 = ?$$

$$\underline{20} - 4 = 16$$

$$\underline{16} - 4 = 12$$

$$12 - \underline{4} = 8$$

$$8 - \underline{4} = 4$$

$$\underline{4} - 4 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$32 \div 4 = ?$$

$$32 - \underline{4} = 28$$

$$28 - \underline{4} = 24$$

$$24 - \underline{4} = 20$$

$$\underline{20} - 4 = 16$$

$$\underline{16} - 4 = 12$$

$$12 - \underline{4} = 8$$

$$8 - \underline{4} = 4$$

$$\underline{4} - 4 = 0$$

$$32 \div 4 = \boxed{8}$$

Division Strategies:

REPEATED SUBTRACTION

$$40 \div 4 = ?$$

$$40 - \underline{4} = 36$$

$$36 - \underline{4} = 32$$

$$32 - \underline{4} = 28$$

$$28 - \underline{4} = 24$$

$$24 - \underline{4} = 20$$

$$\underline{20} - 4 = 16$$

$$\underline{16} - 4 = 12$$

$$12 - \underline{4} = 8$$

$$8 - \underline{4} = 4$$

$$\underline{4} - 4 = 0$$

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

Modeling Division: **SKIP COUNTING**

DRAW ON A NUMBER LINE



4 8 12 16 20 24 28 32 36 40



4 8 12 16 20 24 28 32 36 40

FILL IN THE MISSING NUMBERS



Modeling Division:

SKIP COUNTING

FILL IN THE MISSING NUMBERS

4	8	12	16	20	24	28	32	36	40
---	---	----	----	----	----	----	----	----	----

FILL IN THE MISSING NUMBERS

4	8	12	16	20	24	28	32	36	40
---	---	----	----	----	----	----	----	----	----

FILL IN THE MISSING NUMBERS

4	8	12	16	20	24	28	32	36	40
---	---	----	----	----	----	----	----	----	----

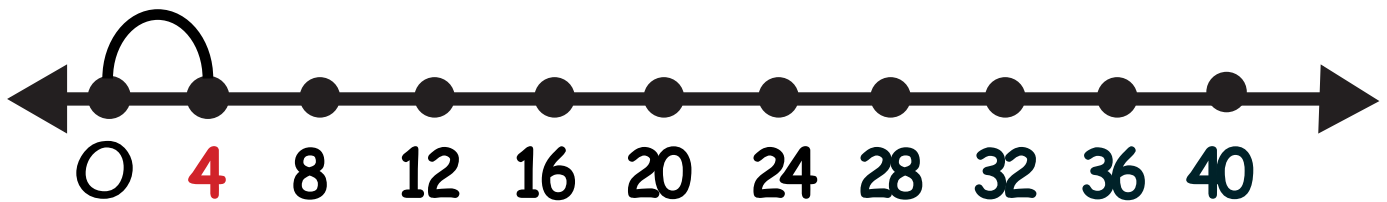
FILL IN THE MISSING NUMBERS

4	8	12	16	20	24	28	32	36	40
---	---	----	----	----	----	----	----	----	----

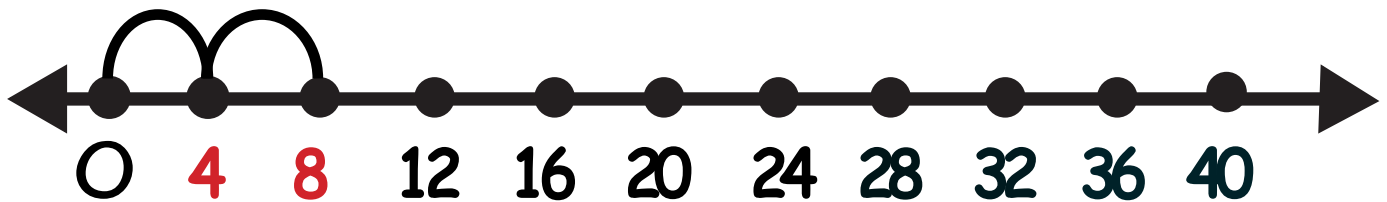
Division Strategies:

SKIP COUNTING

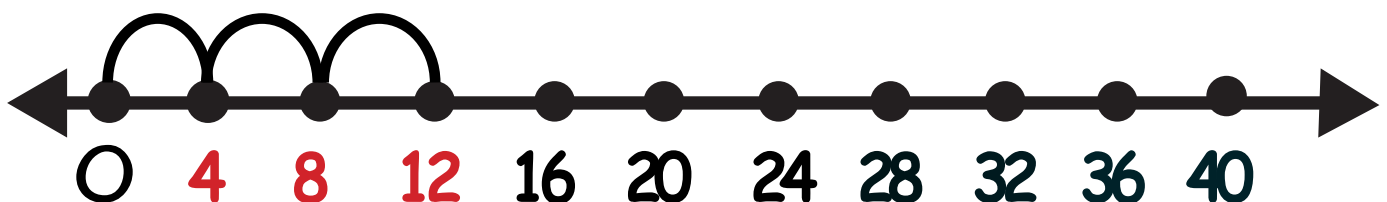
MODEL $4 \div 4$ ON THE NUMBER LINE.



MODEL $8 \div 4$ ON THE NUMBER LINE.



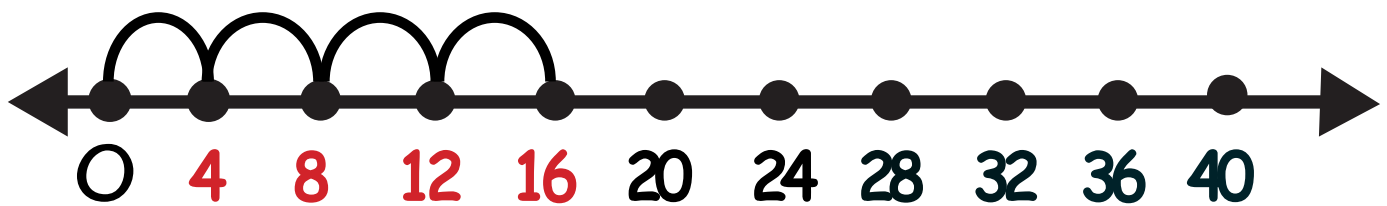
MODEL $12 \div 4$ ON THE NUMBER LINE.



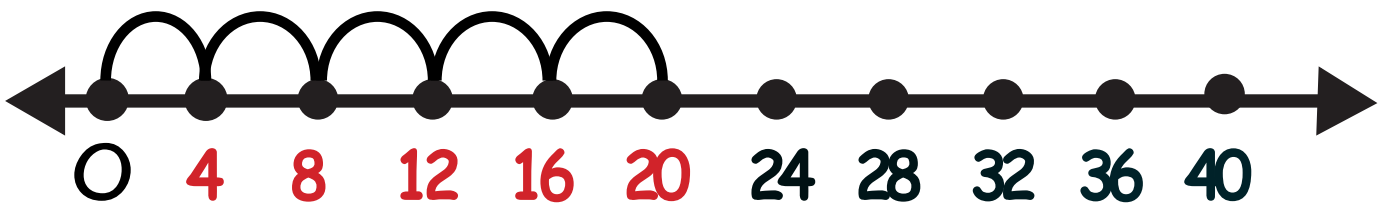
Division Strategies:

SKIP COUNTING

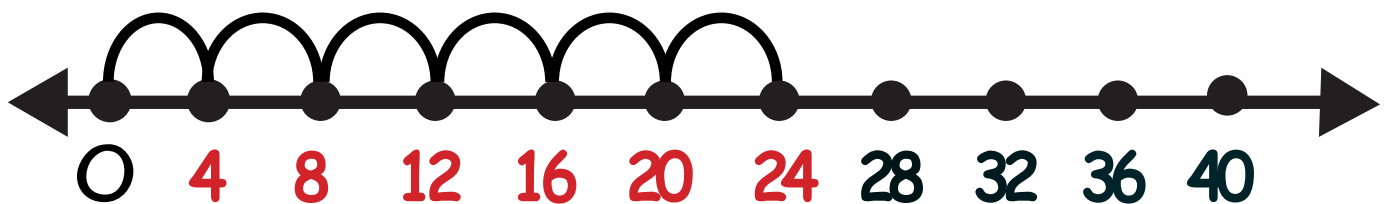
MODEL $16 \div 4$ ON THE NUMBER LINE.



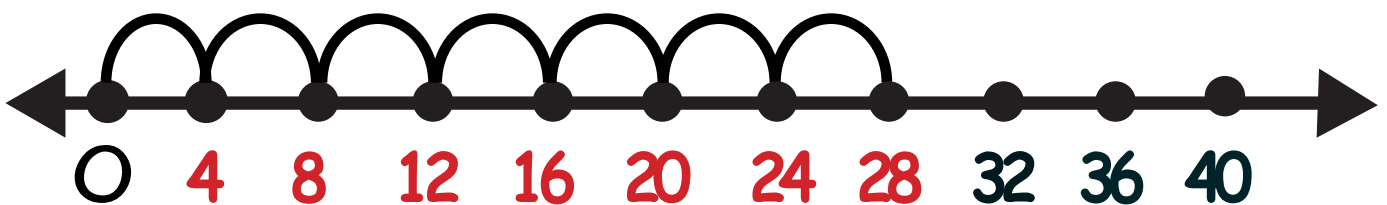
MODEL $20 \div 4$ ON THE NUMBER LINE.



MODEL $24 \div 4$ ON THE NUMBER LINE.



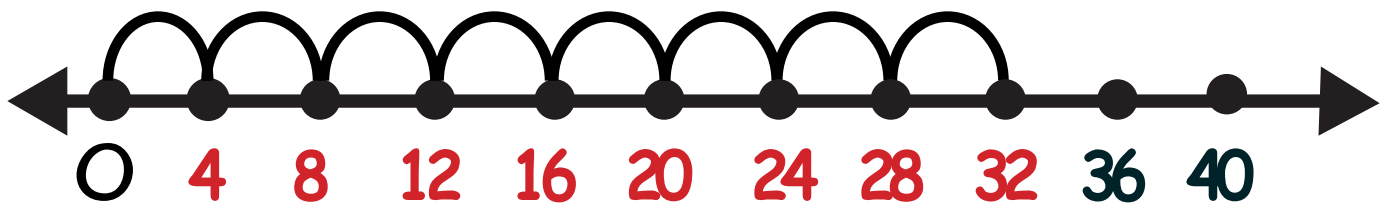
MODEL $28 \div 4$ ON THE NUMBER LINE.



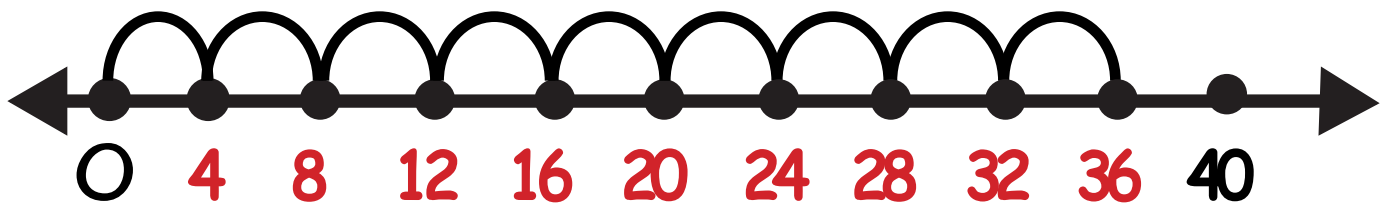
Division Strategies:

SKIP COUNTING

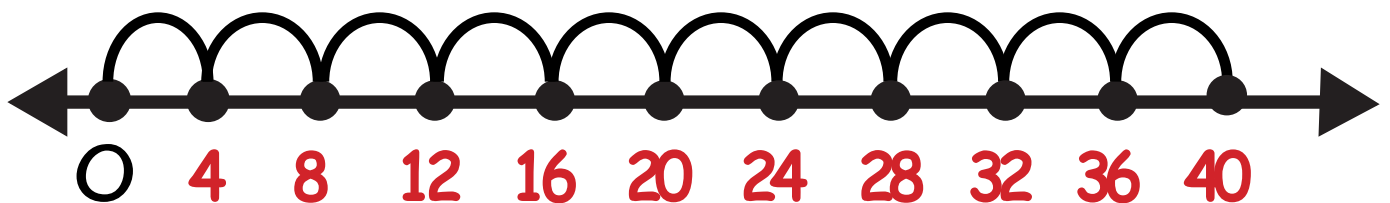
MODEL $32 \div 4$ ON THE NUMBER LINE.



MODEL $36 \div 4$ ON THE NUMBER LINE.



MODEL $40 \div 4$ ON THE NUMBER LINE.

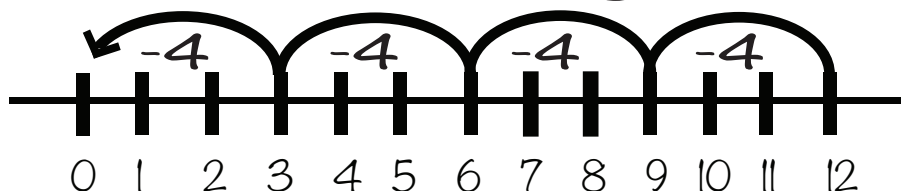


Division Strategies:

NUMBER LINES

THERE ARE 12 COOKIES AND YOU PUT 4 IN A BAG. HOW MANY BAGS DO YOU HAVE?

$$12 \div 4 = 3$$



HOW MANY JUMPS UNTIL YOU GET TO ZERO?

THE FIRST NUMBER IS HOW MANY COOKIES? (DIVIDEND). THE SECOND NUMBER IS HOW MANY ARE IN A BAG (DIVISOR). THE QUESTION IS HOW MANY BAGS DO YOU NEED (QUOTIENT)?

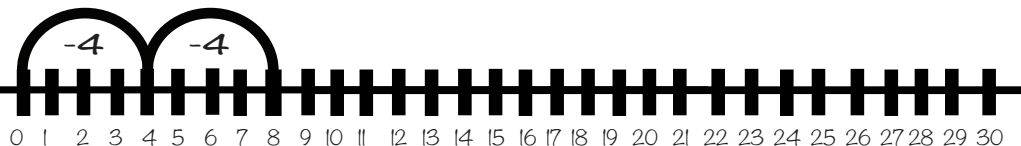
SOLVE THE PROBLEM ON THE NUMBER LINE.

HOW MANY JUMPS UNTIL YOU GET TO ZERO?

$$4 \div 4$$



$$8 \div 4$$



$$12 \div 4$$



$$16 \div 4$$



Division Strategies:

NUMBER LINES

$20 \div 4$



$24 \div 4$



$28 \div 4$



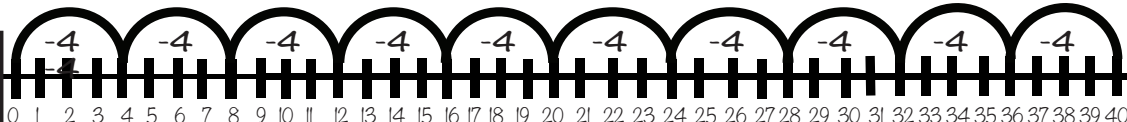
$32 \div 4$



$36 \div 4$



$40 \div 4$



Division Strategies: **SKIP COUNTING CHART**

4

8

12

16

20

24

28

32

36

40

Division Vocabulary

dividend

divisor

quotient

$$16 \div 4 = 4$$

divisor

$$\begin{array}{r} 4 \\ 4 \overline{) 16} \end{array}$$

quotient

dividend

dividend

$$\frac{16}{4} = 4$$

quotient

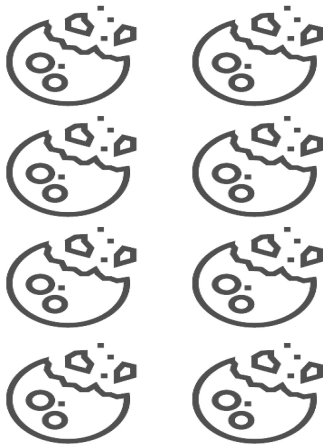
divisor

Array Flashcards

USE THE MODEL TO SOLVE



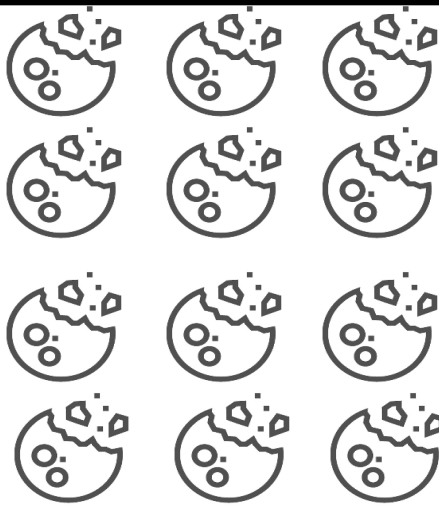
$$4 \div 4 = \underline{1}$$



$$8 \div 4 = \underline{2}$$

Array Flashcards

USE THE MODEL TO SOLVE



$$12 \div 4 = \underline{3}$$



$$16 \div 4 = \underline{4}$$

Array Flashcards

USE THE MODEL TO SOLVE



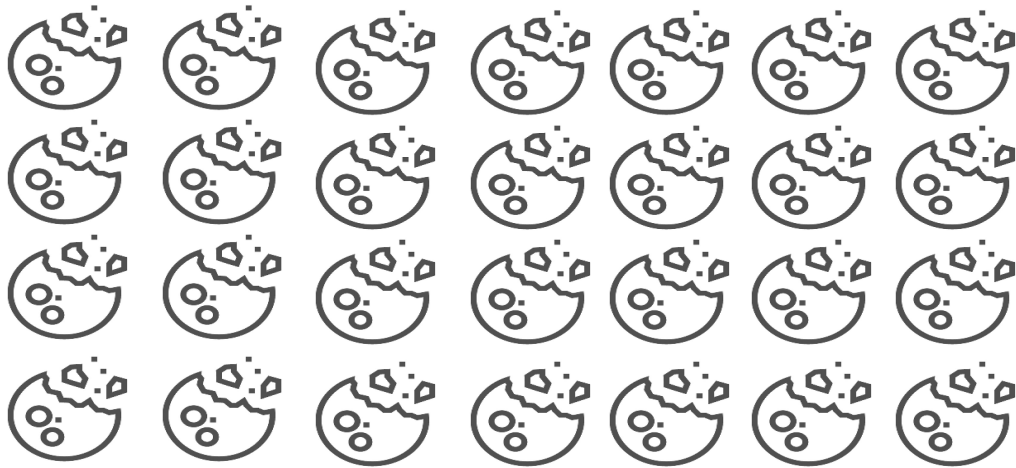
$$20 \div 4 = \underline{5}$$



$$24 \div 4 = \underline{6}$$

Array Flashcards

USE THE MODEL TO SOLVE



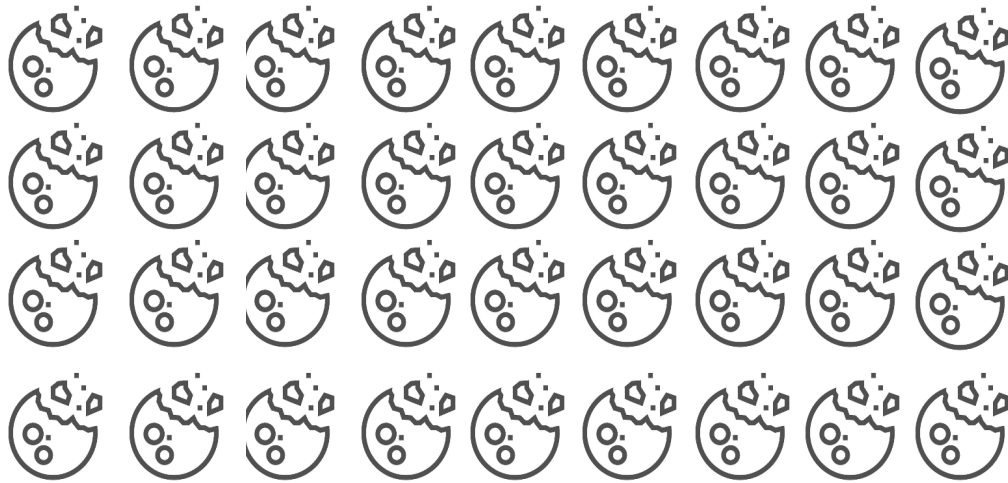
$$28 \div 4 = \underline{7}$$



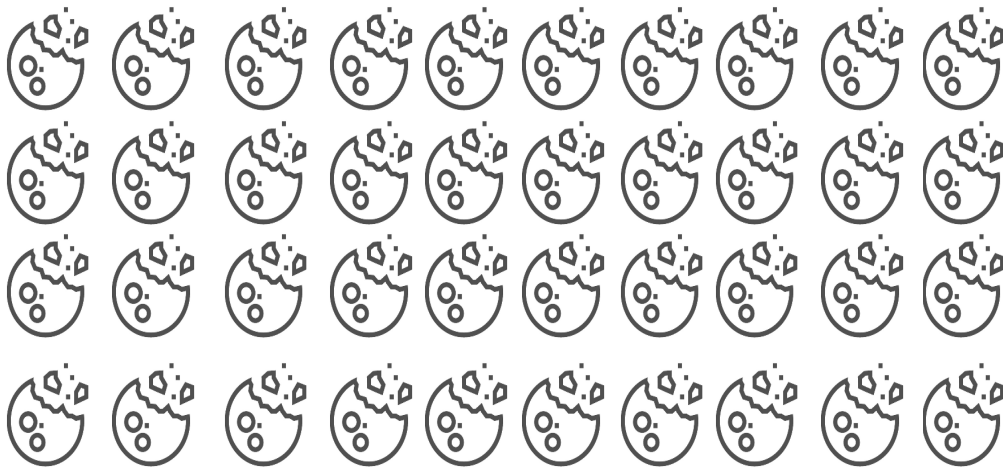
$$32 \div 4 = \underline{8}$$

Array Flashcards

USE THE MODEL TO SOLVE



$$36 \div 4 = \underline{9}$$



$$40 \div 4 = \underline{10}$$

Array Flashcards

**WRITE AN EQUATION THAT
MATCHES THE ARRAY**

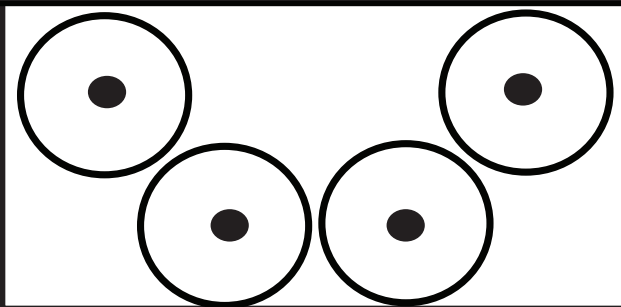
FREE CHOICE

FREE CHOICE

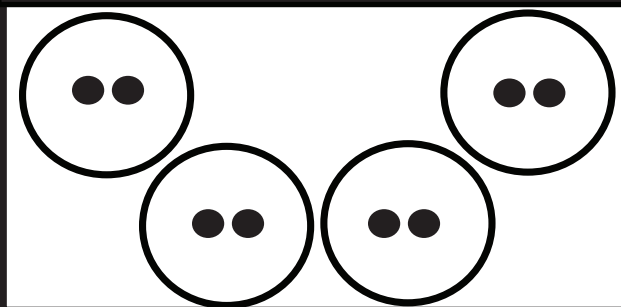
Equal Group Flashcards

MAKE YOUR OWN EQUAL GROUP FLASHCARDS. DRAW EQUAL GROUPS TO MODEL THE PROBLEM.

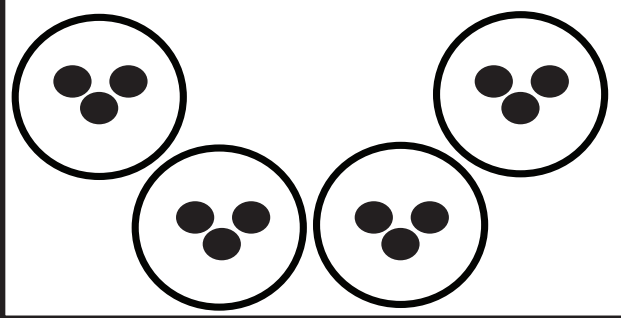
$4 \div 4 = \underline{1}$



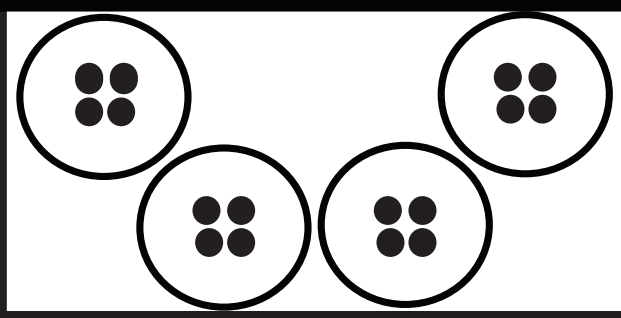
$8 \div 4 = \underline{2}$



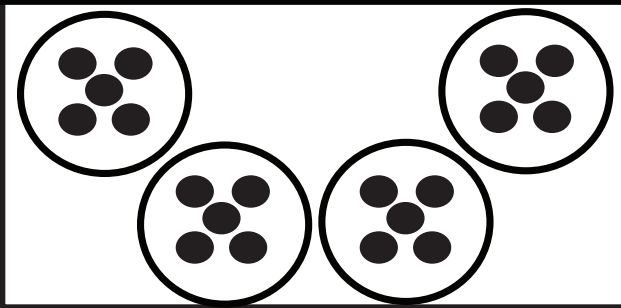
$12 \div 4 = \underline{3}$



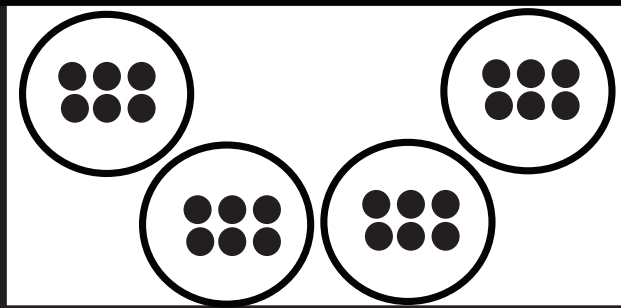
$16 \div 4 = \underline{4}$



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



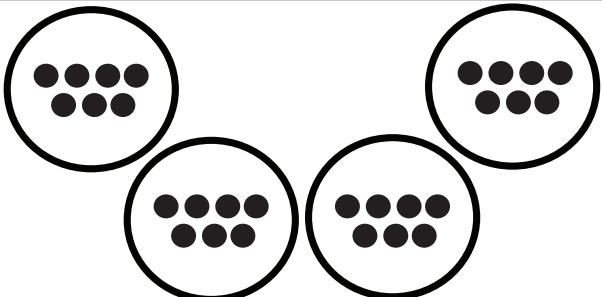
$24 \div 4 = \underline{6}$



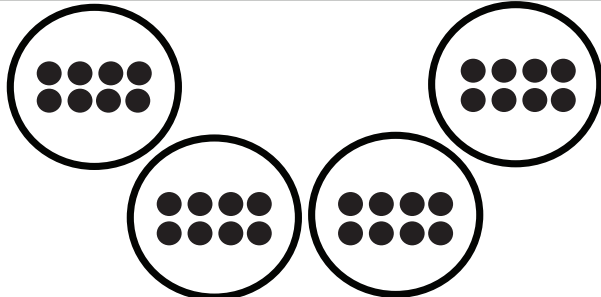
Equal Group Flashcards

MAKE YOUR OWN EQUAL GROUP FLASHCARDS. DRAW EQUAL GROUPS TO MODEL THE PROBLEM.

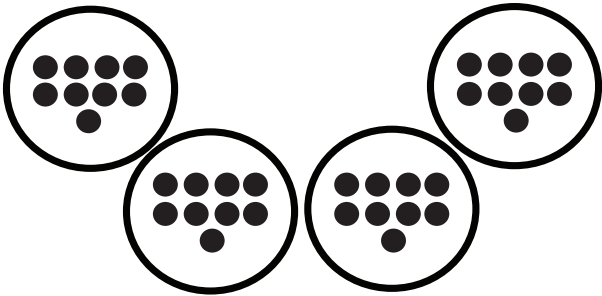
$28 \div 4 = \underline{7}$



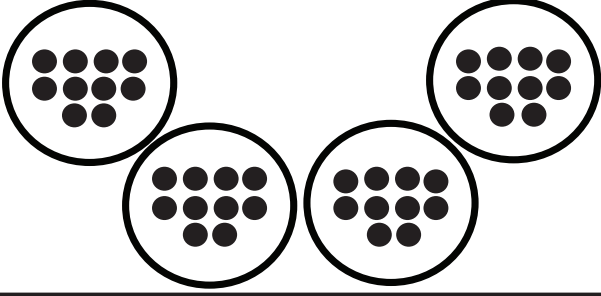
$32 \div 4 = \underline{8}$



$36 \div 4 = \underline{9}$



$40 \div 4 = \underline{10}$



Regular Flashcards


$$0 \div 4$$


$$4 \div 4$$


$$8 \div 4$$


$$12 \div 4$$


$$16 \div 4$$


$$20 \div 4$$

Regular Flashcards

$$24 \div 4$$

$$28 \div 4$$

$$32 \div 4$$

$$36 \div 4$$

$$40 \div 4$$

Dividing By 4 Calling Cards

0	1	2	3	4
5	6	7	8	9
				10

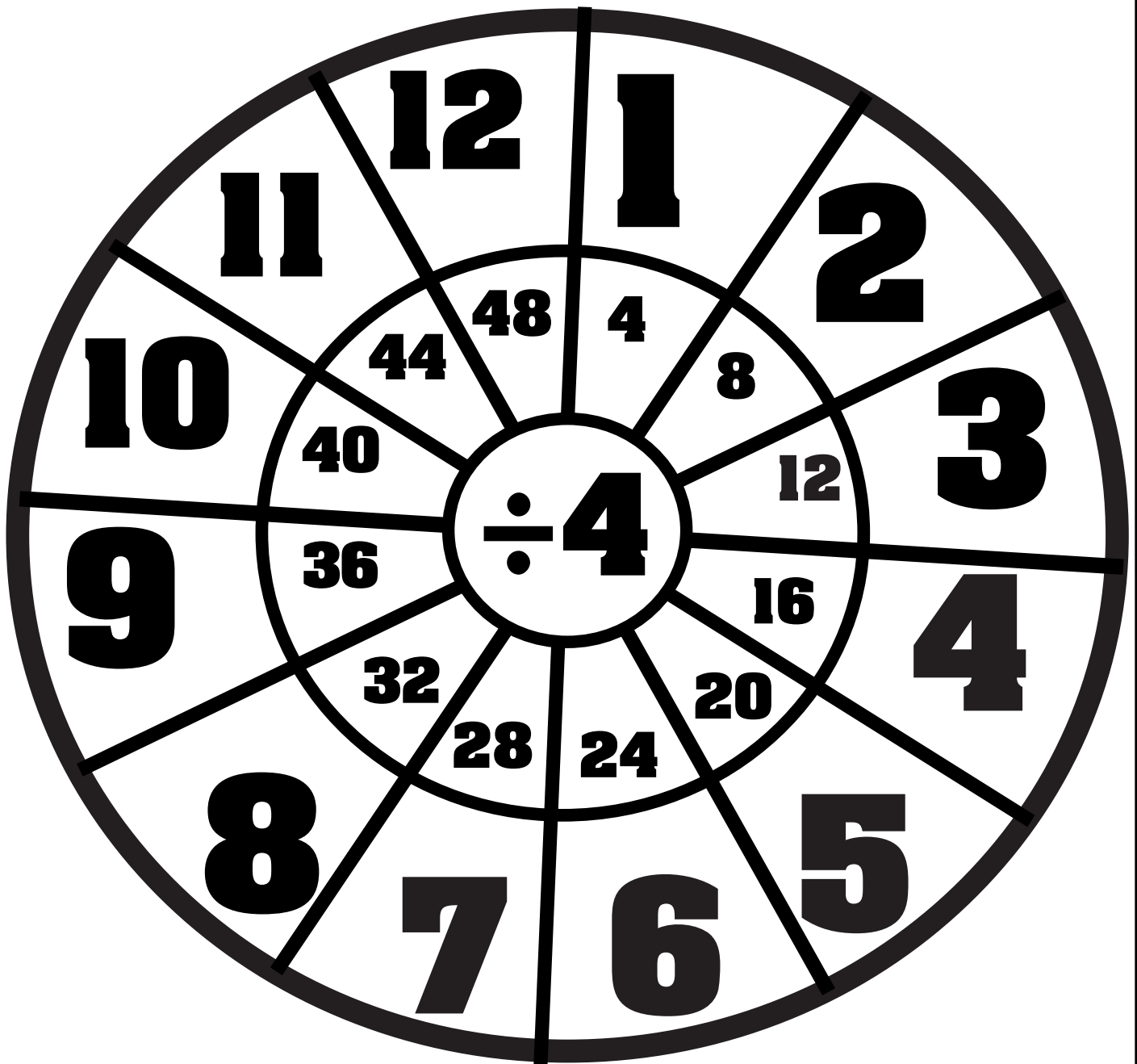
Dividing by 4 4 IN A ROW

$28 \div 4 = ?$	$4 \div 4 = ?$	$16 \div 4 = ?$	$36 \div 4 = ?$	$32 \div 4 = ?$	$8 \div 4 = ?$
$28 \div 4 = ?$	$20 \div 4 = ?$	$40 \div 4 = ?$	$24 \div 4 = ?$	$28 \div 4 = ?$	$12 \div 4 = ?$
$24 \div 4 = ?$	$12 \div 4 = ?$	$20 \div 4 = ?$	$8 \div 4 = ?$	$24 \div 4 = ?$	$32 \div 4 = ?$
$0 \div 4 = ?$	$16 \div 4 = ?$	$20 \div 4 = ?$	$32 \div 4 = ?$	$24 \div 4 = ?$	$4 \div 4 = ?$
$36 \div 4 = ?$	$40 \div 4 = ?$	$32 \div 4 = ?$	$28 \div 4 = ?$	$40 \div 4 = ?$	$20 \div 4 = ?$
$40 \div 4 = ?$	$36 \div 4 = ?$	$4 \div 4 = ?$	$8 \div 4 = ?$	$28 \div 4 = ?$	$28 \div 4 = ?$
$36 \div 4 = ?$	$28 \div 4 = ?$	$40 \div 4 = ?$	$12 \div 4 = ?$	$40 \div 4 = ?$	$28 \div 4 = ?$

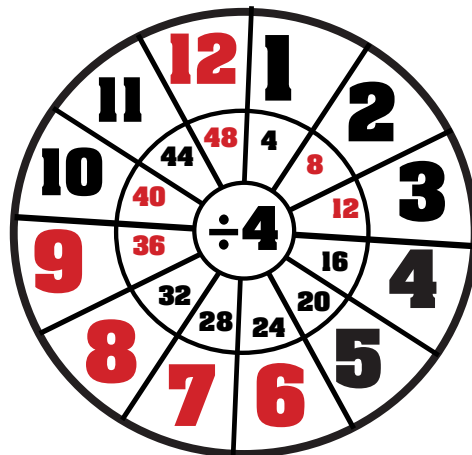
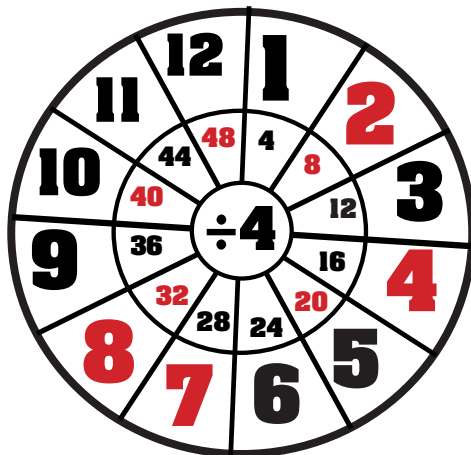
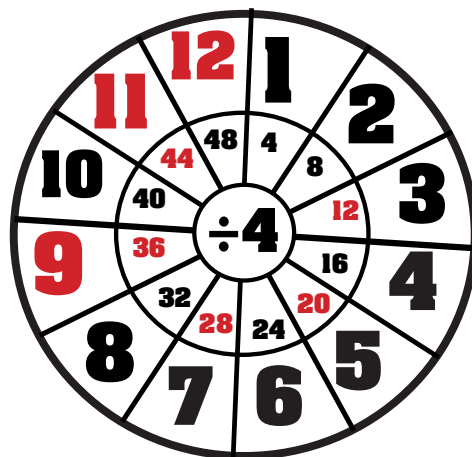
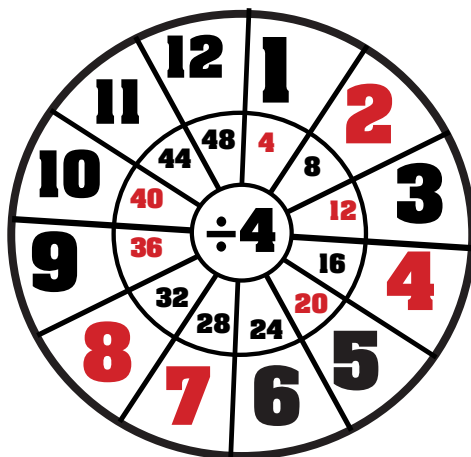
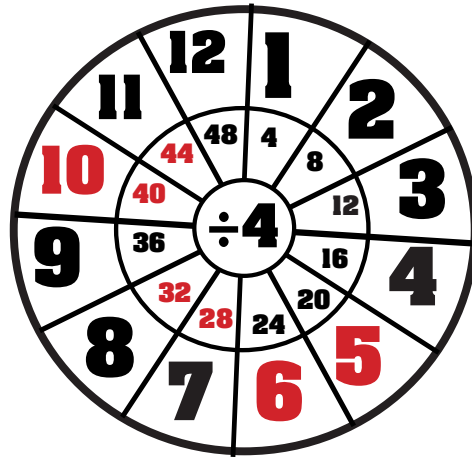
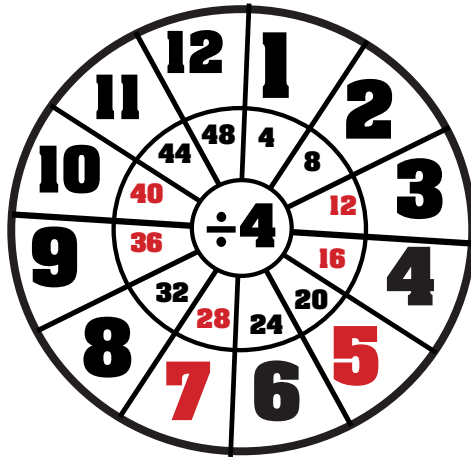
Instructions:

1. Each person pulls a card. Whoever has the largest number starts.
2. Take turns pulling a card and cover the expression that matches that quotient.
3. The first player to get 4 in a row wins!
4. Play again!

DIVISION WHEELS



DIVISION WHEELS



PICTURE FACT FAMILY

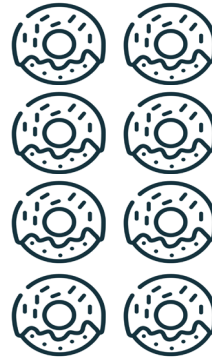


$$\begin{array}{r} 4 \\ \hline 1 \end{array} \times \begin{array}{r} 1 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 4 \end{array}$$

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

$$\begin{array}{r} 4 \\ \hline 4 \end{array} \div \begin{array}{r} 1 \\ \hline 1 \end{array} = \begin{array}{r} 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 4 \\ \hline 4 \end{array} \div \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 1 \\ \hline 1 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 2 \end{array} \times \begin{array}{r} 2 \\ \hline 4 \end{array} = \begin{array}{r} 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 4 \end{array} \times \begin{array}{r} 4 \\ \hline 2 \end{array} = \begin{array}{r} 8 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 8 \end{array} \div \begin{array}{r} 2 \\ \hline 2 \end{array} = \begin{array}{r} 4 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 8 \end{array} \div \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 2 \\ \hline 2 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 3 \end{array} \times \begin{array}{r} 3 \\ \hline 4 \end{array} = \begin{array}{r} 12 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ \hline 4 \end{array} \times \begin{array}{r} 4 \\ \hline 3 \end{array} = \begin{array}{r} 12 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 12 \\ \hline 12 \end{array} \div \begin{array}{r} 3 \\ \hline 3 \end{array} = \begin{array}{r} 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 12 \\ \hline 12 \end{array} \div \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 3 \\ \hline 3 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 4 \end{array} \times \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 16 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 4 \\ \hline 4 \end{array} \times \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 16 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 16 \\ \hline 16 \end{array} \div \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 16 \\ \hline 16 \end{array} \div \begin{array}{r} 4 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 4 \end{array}$$

PICTURE FACT FAMILY



$$\begin{array}{r} 4 \\ \hline 5 \end{array} \times \begin{array}{r} 5 \\ \hline 4 \end{array} = \begin{array}{r} 20 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ \hline 20 \end{array} \div \begin{array}{r} 5 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 5 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 6 \end{array} \times \begin{array}{r} 6 \\ \hline 4 \end{array} = \begin{array}{r} 24 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 24 \\ \hline 24 \end{array} \div \begin{array}{r} 6 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 6 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 7 \end{array} \times \begin{array}{r} 7 \\ \hline 4 \end{array} = \begin{array}{r} 28 \\ \hline 28 \end{array}$$

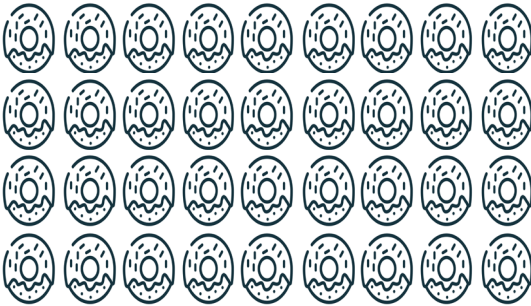
$$\begin{array}{r} 28 \\ \hline 28 \end{array} \div \begin{array}{r} 7 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 7 \end{array}$$



$$\begin{array}{r} 4 \\ \hline 8 \end{array} \times \begin{array}{r} 8 \\ \hline 4 \end{array} = \begin{array}{r} 32 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 32 \\ \hline 32 \end{array} \div \begin{array}{r} 8 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 8 \end{array}$$

PICTURE FACT FAMILY


$$\begin{array}{r} 4 \\ \hline 9 \end{array} \times \begin{array}{r} 9 \\ \hline 4 \end{array} = \begin{array}{r} 36 \\ \hline 36 \end{array}$$
$$\begin{array}{r} 9 \\ \hline 36 \end{array} \times \begin{array}{r} 4 \\ \hline 9 \end{array} = \begin{array}{r} 36 \\ \hline 36 \end{array}$$
$$\begin{array}{r} 36 \\ \hline 36 \end{array} \div \begin{array}{r} 9 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 9 \end{array}$$
$$\begin{array}{r} 36 \\ \hline 36 \end{array} \div \begin{array}{r} 4 \\ \hline 9 \end{array} = \begin{array}{r} 9 \\ \hline 9 \end{array}$$

MAKE YOUR OWN

_____	x	_____	=	_____
_____	x	_____	=	_____
_____	÷	_____	=	_____
_____	÷	_____	=	_____

TRIANGLE FACT FAMILY

40

X ÷

4 10

$$\begin{array}{r} 4 \times 10 = 40 \\ 10 \times 4 = 40 \\ 40 \div 10 = 4 \\ 40 \div 4 = 10 \end{array}$$

4

X ÷

4 1

$$\begin{array}{r} 4 \times 1 = 4 \\ 1 \times 4 = 4 \\ 4 \div 1 = 4 \\ 4 \div 4 = 1 \end{array}$$

8

X ÷

4 2

$$\begin{array}{r} 4 \times 2 = 8 \\ 2 \times 4 = 8 \\ 8 \div 2 = 4 \\ 8 \div 4 = 2 \end{array}$$

12

X ÷

4 3

$$\begin{array}{r} 4 \times 3 = 12 \\ 3 \times 4 = 12 \\ 12 \div 3 = 4 \\ 12 \div 4 = 3 \end{array}$$

TRIANGLE FACT FAMILY

16

X ÷

4 4

$$\begin{array}{r} 4 \times 4 = 16 \\ 4 \times 4 = 16 \\ 16 \div 4 = 4 \\ 16 \div 4 = 4 \end{array}$$

20

X ÷

4 5

$$\begin{array}{r} 4 \times 5 = 20 \\ 5 \times 4 = 20 \\ 20 \div 5 = 4 \\ 20 \div 4 = 5 \end{array}$$

24

X ÷

4 6

$$\begin{array}{r} 4 \times 6 = 24 \\ 6 \times 4 = 24 \\ 24 \div 6 = 4 \\ 24 \div 4 = 6 \end{array}$$

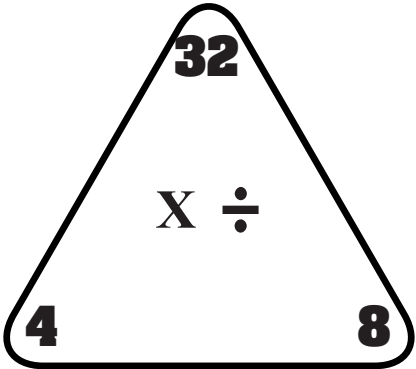
28

X ÷

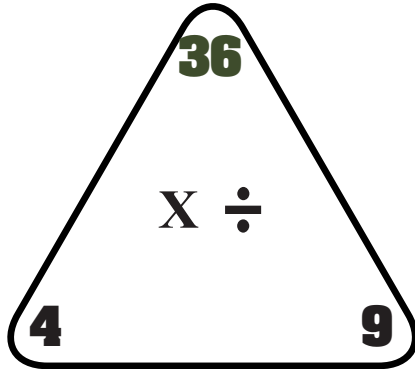
4 7

$$\begin{array}{r} 4 \times 7 = 28 \\ 7 \times 4 = 28 \\ 28 \div 7 = 4 \\ 28 \div 4 = 7 \end{array}$$

TRIANGLE FACT FAMILY



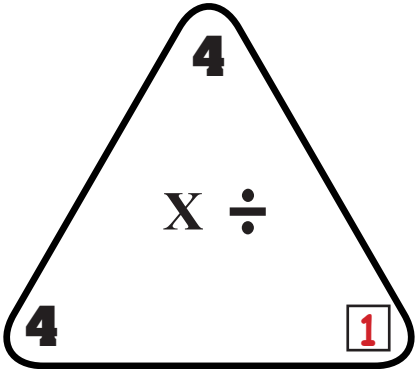
A triangle with the number 32 at the top vertex, 4 at the bottom-left vertex, and 8 at the bottom-right vertex. Inside the triangle are the symbols $\times$ and $\div$.

$$\begin{array}{r} 4 \times 8 = 32 \\ 8 \times 4 = 32 \\ 32 \div 8 = 4 \\ 32 \div 4 = 8 \end{array}$$


A triangle with the number 36 at the top vertex, 4 at the bottom-left vertex, and 9 at the bottom-right vertex. Inside the triangle are the symbols $\times$ and $\div$.

$$\begin{array}{r} 4 \times 9 = 36 \\ 9 \times 4 = 36 \\ 36 \div 9 = 4 \\ 36 \div 4 = 9 \end{array}$$

TRIANGLE FACT FAMILY



4

X ÷

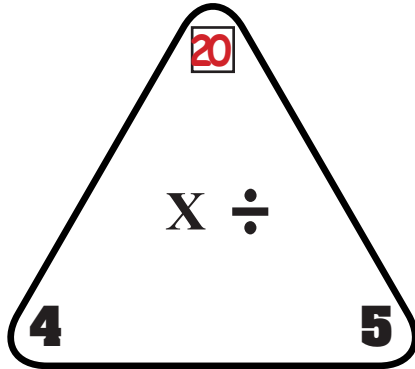
4

1

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

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

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

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


20

X ÷

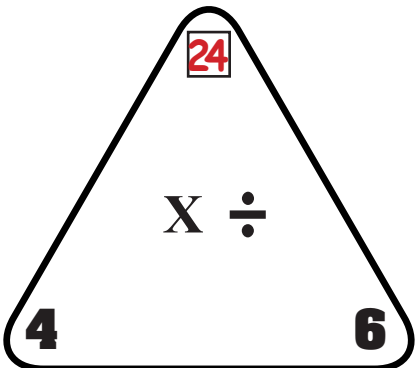
4

5

$$\begin{array}{r} 4 \\ \times \\ 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 5 \\ \times \\ 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ \div \\ 5 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 20 \\ \div \\ 4 \\ \hline 5 \end{array}$$


24

X ÷

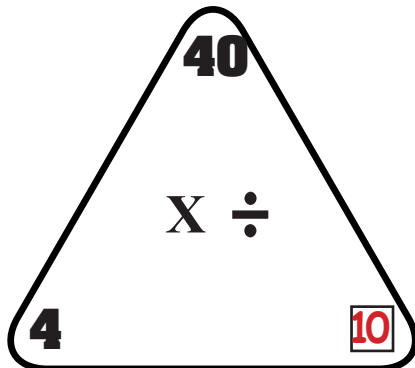
4

6

$$\begin{array}{r} 4 \\ \times \\ 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 6 \\ \times \\ 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 24 \\ \div \\ 6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 24 \\ \div \\ 4 \\ \hline 6 \end{array}$$


40

X ÷

4

10

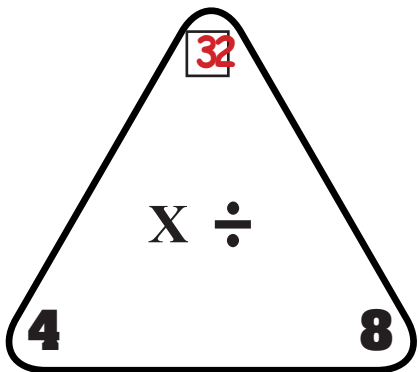
$$\begin{array}{r} 4 \\ \times \\ 10 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 10 \\ \times \\ 4 \\ \hline 40 \end{array}$$

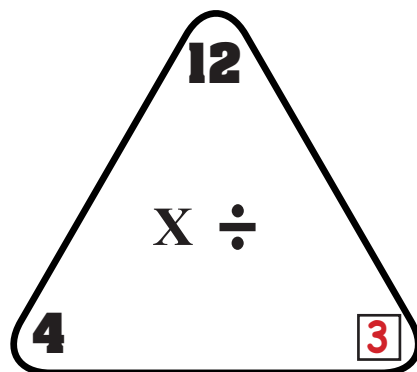
$$\begin{array}{r} 40 \\ \div \\ 10 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 40 \\ \div \\ 4 \\ \hline 10 \end{array}$$

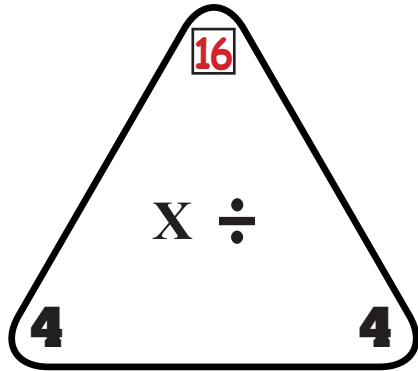
TRIANGLE FACT FAMILY



$$\begin{array}{r} 4 \times 8 = 32 \\ 8 \times 4 = 32 \\ 32 \div 8 = 4 \\ 32 \div 4 = 8 \end{array}$$



$$\begin{array}{r} 4 \times 3 = 12 \\ 3 \times 4 = 12 \\ 12 \div 3 = 4 \\ 12 \div 4 = 3 \end{array}$$



$$\begin{array}{r} 4 \times 4 = 16 \\ 4 \times 4 = 16 \\ 16 \div 4 = 4 \\ 16 \div 4 = 4 \end{array}$$

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM.

THE BAKERY HAD 12 DONUTS IN 4 ROWS. THEY HAD THE SAME AMOUNT IN EACH ROW. HOW MANY WERE IN EACH ROW?

$$\underline{12} \div \underline{4} = \underline{3}$$

THE BAKERY HAD 16 DONUTS. THEY PUT 4 IN A ROW. HOW MANY ROWS DID THEY MAKE?

$$\underline{16} \div \underline{4} = \underline{4}$$

THE BAKERY MADE 40 MUFFINS. THEY PACKED 4 IN A BOX. HOW MANY BOXES DID THEY USE?

$$\underline{40} \div \underline{4} = \underline{10}$$

THE BAKERY MADE 8 HAND PIES. THEY USED 4 BOXES. THEY PUT THE SAME AMOUNT OF PIES IN EACH BOX. HOW MANY HAND PIES DID THEY PUT IN EACH BOX?

$$\underline{8} \div \underline{4} = \underline{2}$$

QUIZ

Follow the directions in each box. Choose an equation to represent each problem.

**I CAN SKIP COUNT TO
DIVIDE BY 4'S!**

**I CAN USE EQUAL GROUPS
TO DIVIDE BY 4'S!**

**I CAN USE ARRAYS TO
MODEL DIVIDING BY 4'S!**

**I CAN MODEL DIVIDING BY
4'S ON THE NUMBER LINE!**

**I CAN USE REPEATED
SUBTRACTION TO DIVIDE BY
4'S.**

**MY STRATEGY FOR THINKING
ABOUT DIVIDING BY 4'S IS....**

CERTIFICATE

★ **GREAT MATH WORK!** ★

HAS SUCCESSFULLY PRACTICED DIVIDING

BY 4'S!

GREAT JOB!

TEACHER: _____ DATE: _____

Looking at the 4's

$$4 \div 4 = 1$$

$$8 \div 4 = 2$$

$$12 \div 4 = 3$$

$$16 \div 4 = 4$$

$$20 \div 4 = 5$$

$$24 \div 4 = 6$$

$$28 \div 4 = 7$$

$$32 \div 4 = 8$$

$$36 \div 4 = 9$$

$$40 \div 4 = 10$$

Bookmarks


4
Division

$4 \div 4 = 1$
 $8 \div 4 = 2$
 $12 \div 4 = 3$
 $16 \div 4 = 4$
 $20 \div 4 = 5$
 $24 \div 4 = 6$
 $28 \div 4 = 7$
 $32 \div 4 = 8$
 $36 \div 4 = 9$
 $40 \div 4 = 10$

DIVIDING A NUMBER BY 4
Hint: Think Multiplication!
 $4 \times ? = _$


4
DIVISION

$4 \div 4 = 1$
 $8 \div 4 = 2$
 $12 \div 4 = 3$
 $16 \div 4 = 4$
 $20 \div 4 = 5$
 $24 \div 4 = 6$
 $28 \div 4 = 7$
 $32 \div 4 = 8$
 $36 \div 4 = 9$
 $40 \div 4 = 10$

DIVIDING A NUMBER BY 4
Hint: Think Multiplication!
 $3 \times ? = _$


4
DIVISION

$4 \div 4 = 1$
 $8 \div 4 = 2$
 $12 \div 4 = 3$
 $16 \div 4 = 4$
 $20 \div 4 = 5$
 $24 \div 4 = 6$
 $28 \div 4 = 7$
 $32 \div 4 = 8$
 $36 \div 4 = 9$
 $40 \div 4 = 10$

DIVIDING A NUMBER BY 4
Hint: Think Multiplication!
 $3 \times ? = _$