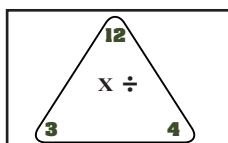


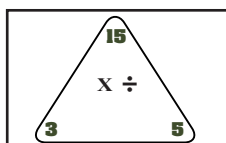
DIVIDING by 3

WORK BOOKLET ANSWER KEY

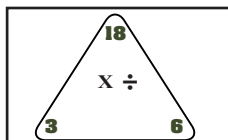
TRIANGLE FACT FAMILY



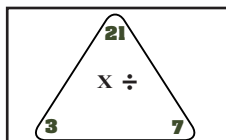
$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____



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

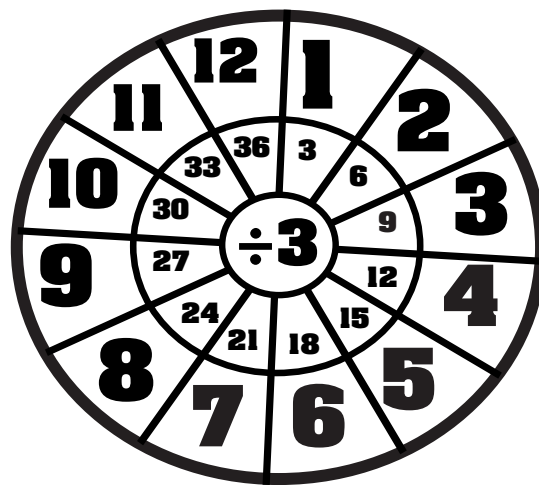


$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____

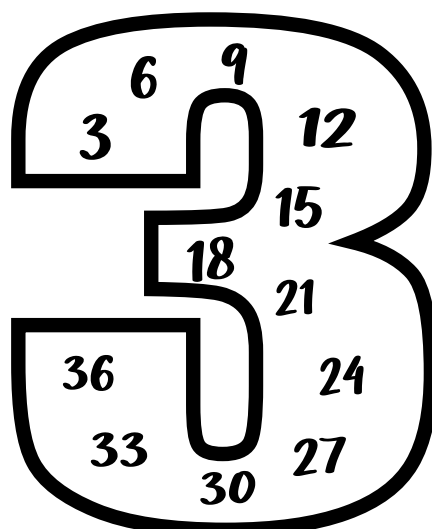


$\times$ _____ = _____
 $\times$ _____ = _____
 $\div$ _____ = _____
 $\div$ _____ = _____

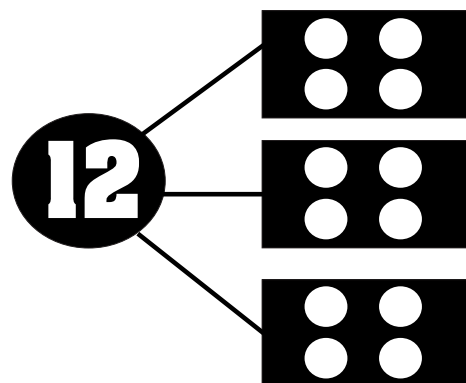
DIVISION WHEELS



MULTIPLES OF 3



Division Strategies: PARTITION

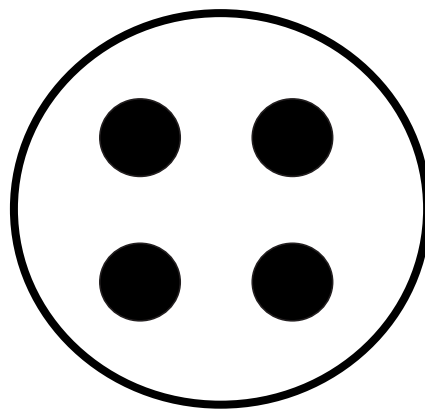
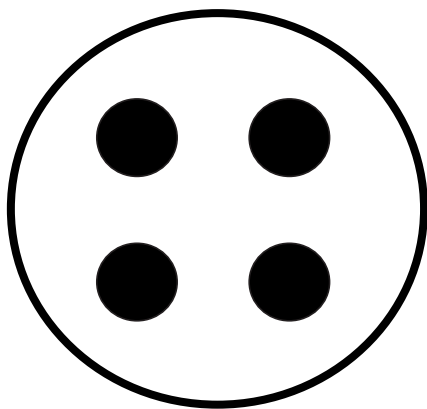


$$12 \div 3 = 4$$

STRATEGY POSTER

When dividing by **3**,
think multiplication! **3 x ? =**

$$12 \div 3 = 4$$



**Hint: When dividing by 3. Think
multiplication $3 \times ? = 12$**

DIVISION

$$15 \div 3 = 5$$



DIVIDEND

DIVISOR

QUOTIENT

MULTIPLES OF THREE

3



6



9



12



15



18



21



24



27



30



33



36



MULTIPLES OF THREE

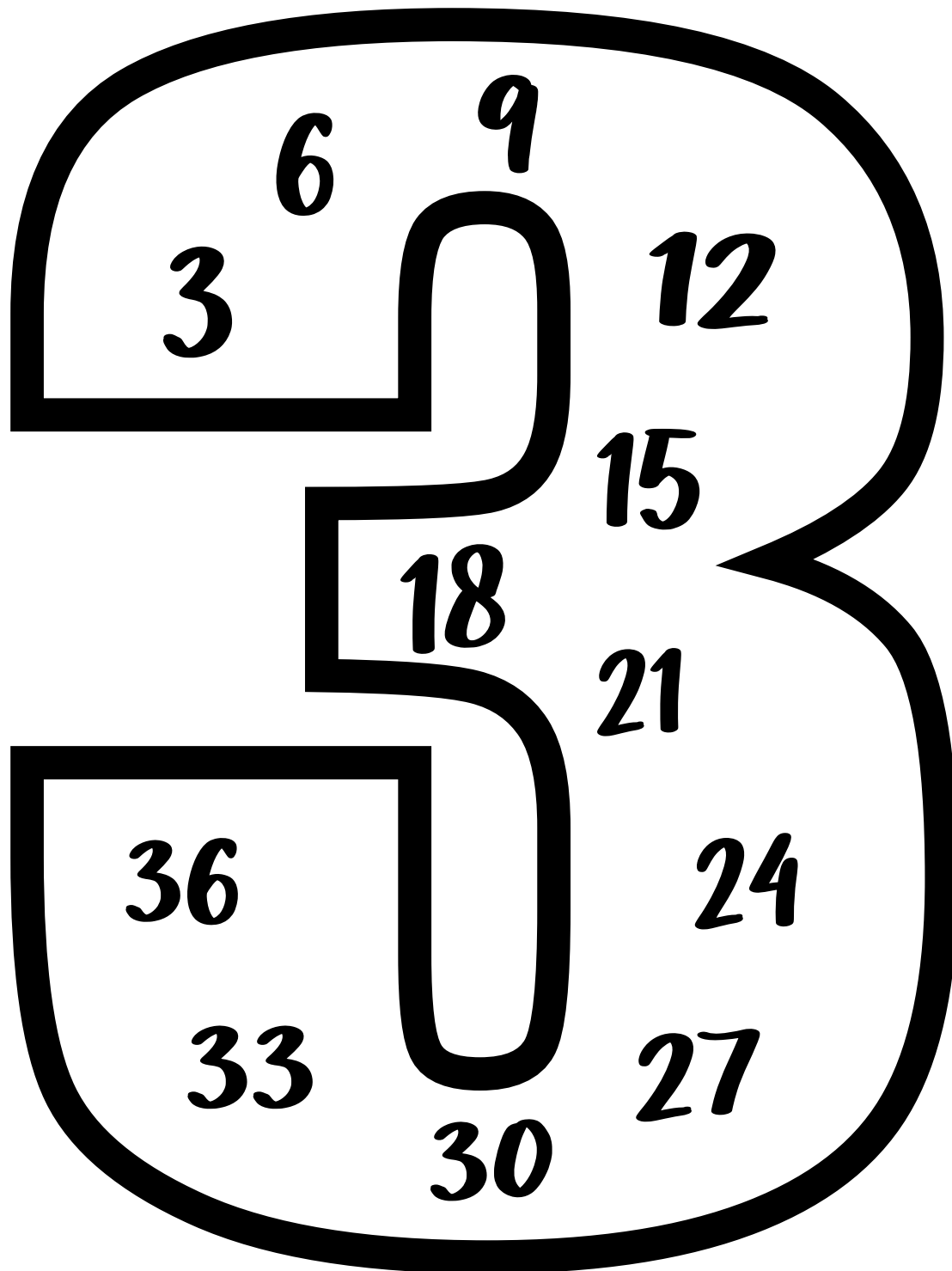
3  6  9 

12  15  18 

21  24  27 

30  33  36 

MULTIPLES OF 3



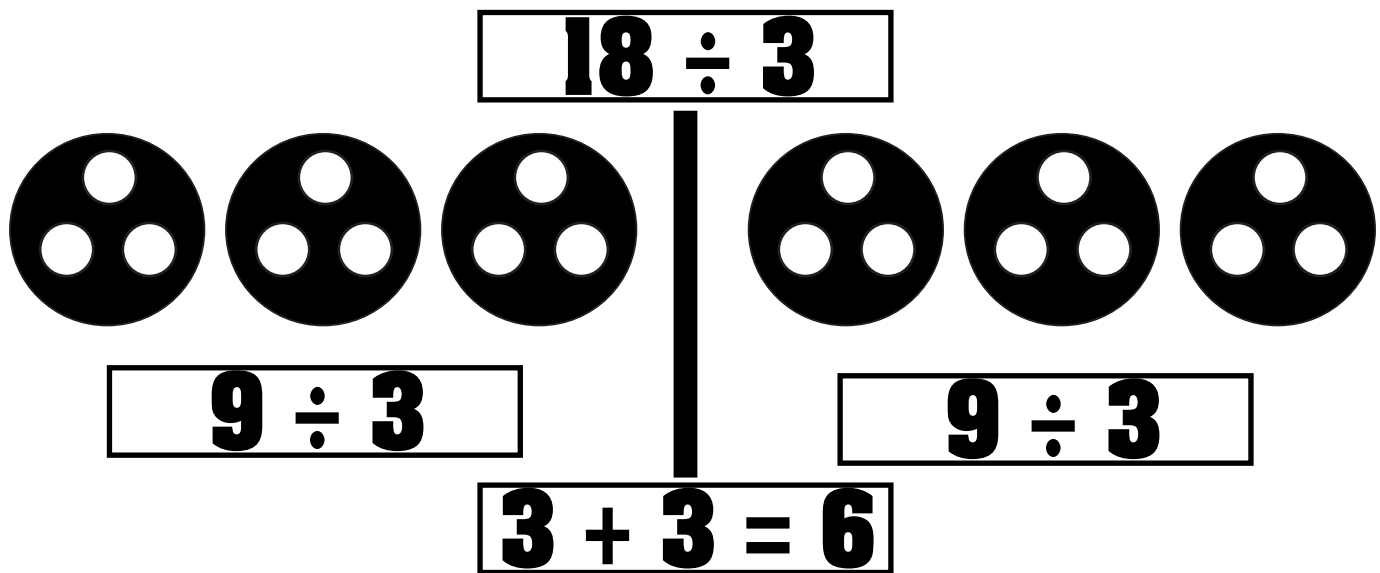


VOCABULARY

DISTRIBUTIVE PROPERTY

There were 18 marbles. I put 3 in each bag. How many bags did I use?

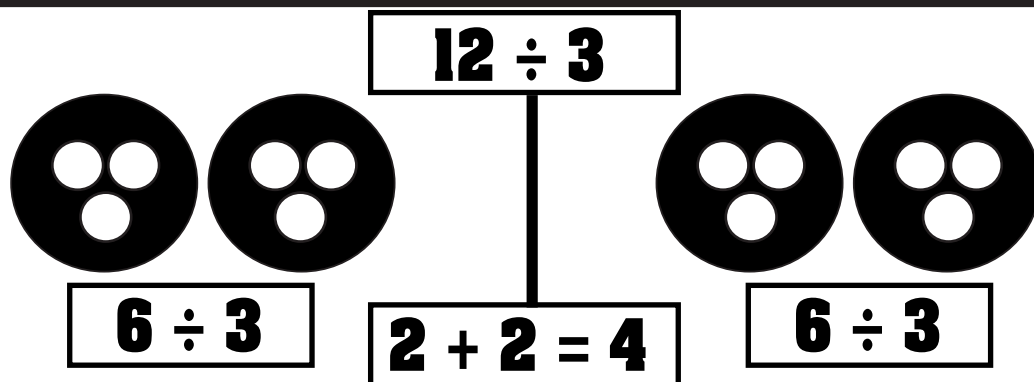
$$18 \div 3 = (9 \div 3) + (9 \div 3) = 3 + 3 = 6$$



MODEL THE FACT

There were 12 marbles. I put 3 in each bag. How many bags did I use?

$$12 \div 3 = (6 \div 3) + (6 \div 3)$$



IDENTITY PROPERTY

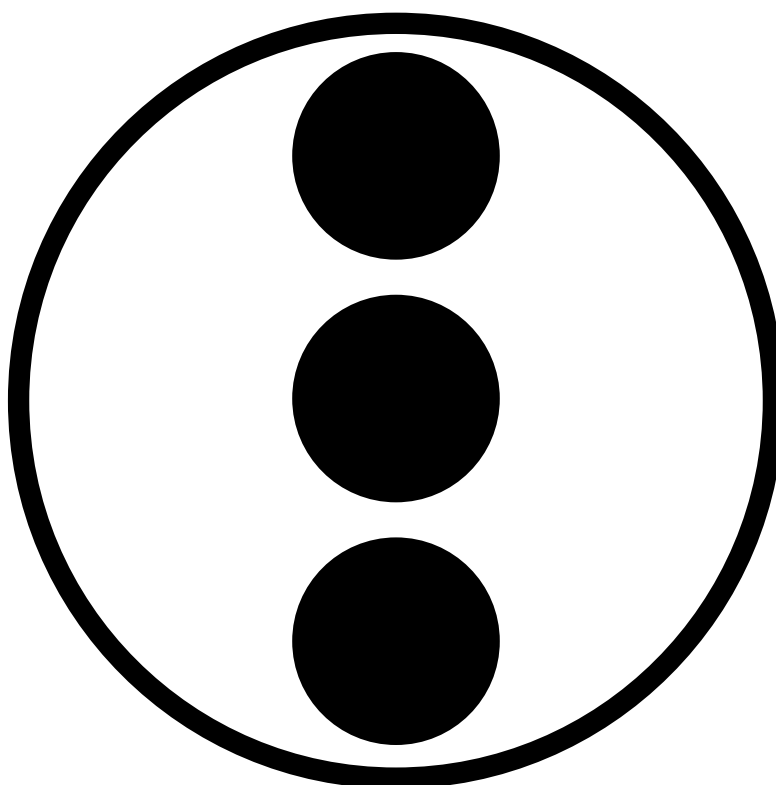
DIVIDING A NUMBER BY 1

$$3 \div 1 = 3$$

$$10 \div 1$$

$$5 \div 1$$

$$7 \div 1$$



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

ZERO PROPERTY

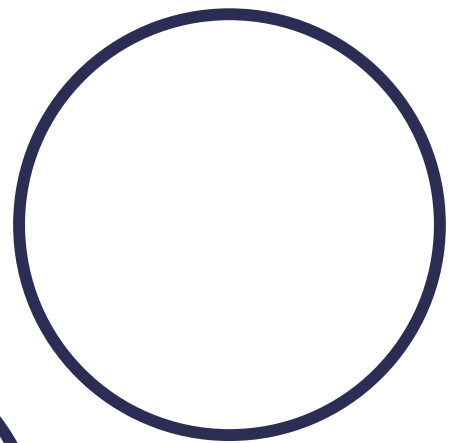
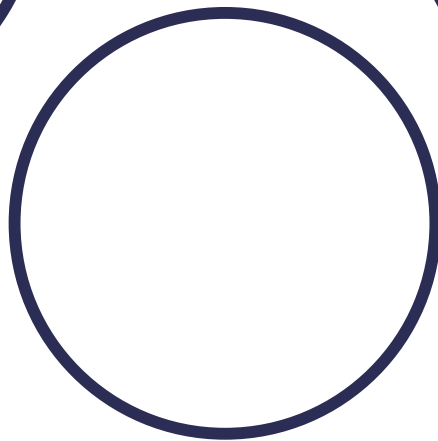
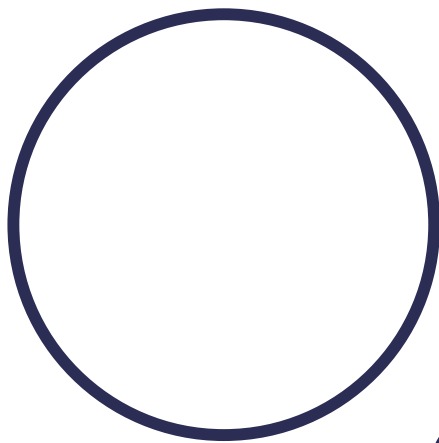
DIVIDING 0 BY A NUMBER

$$0 \div 3 = 0$$

$$0 \div 8$$

$$0 \div 1$$

$$0 \div 2$$



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

DIVISION BY ITSELF PROPERTY

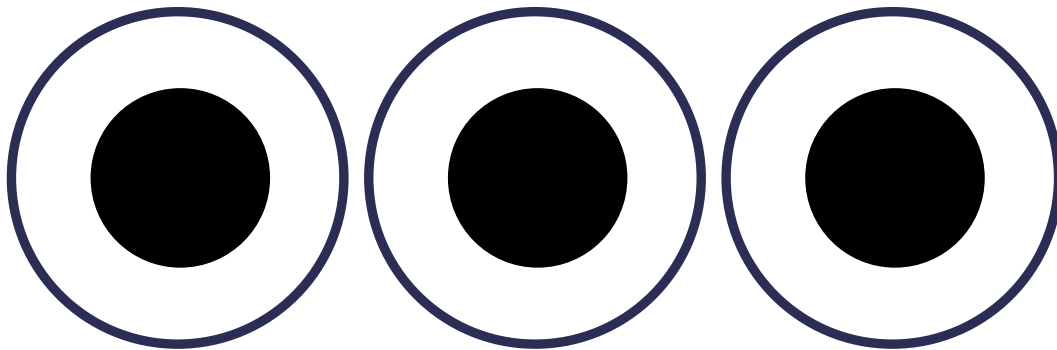
DIVIDING A NUMBER BY ITSELF

$$3 \div 3 = 1$$

$$10 \div 10$$

$$5 \div 5$$

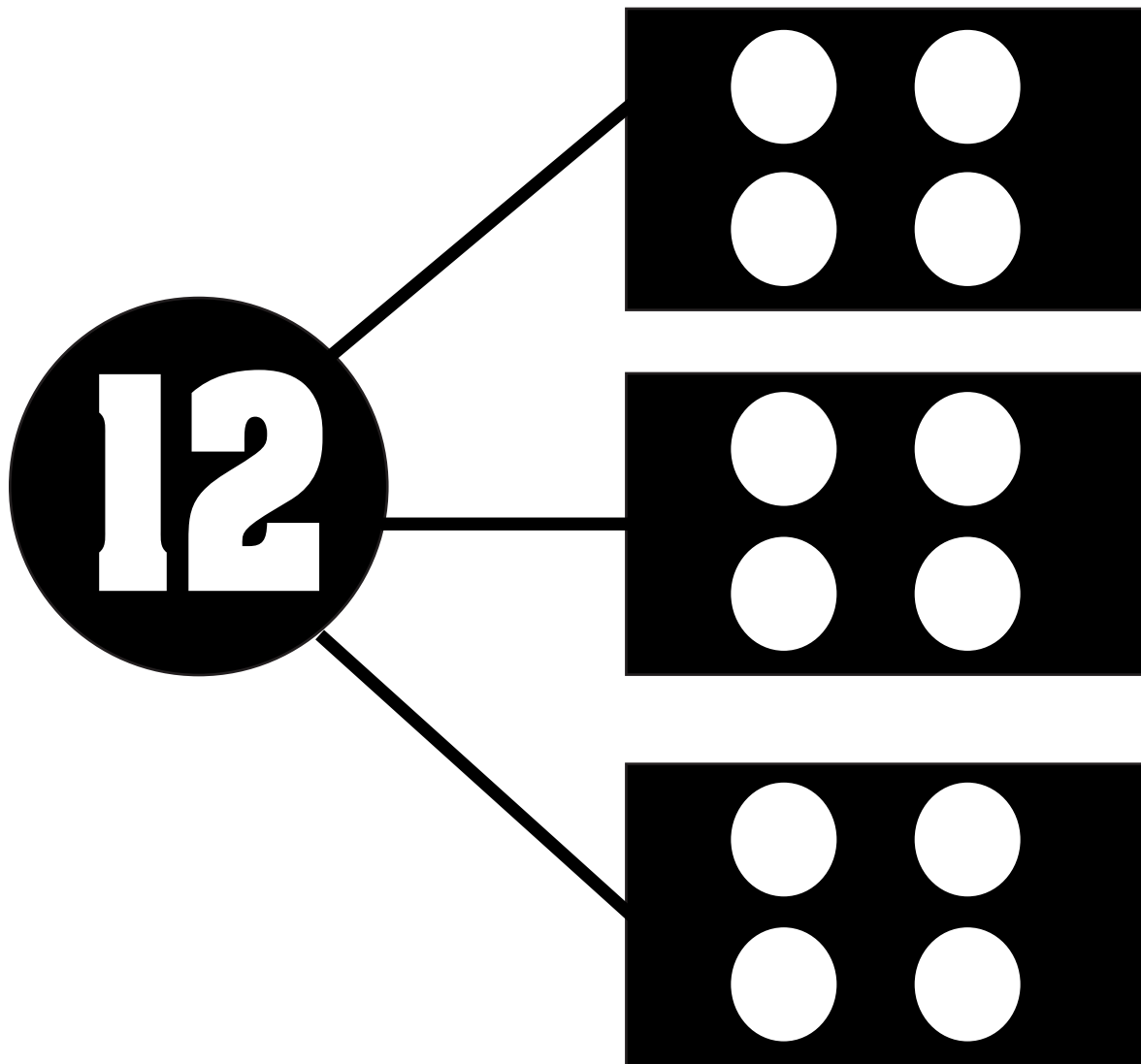
$$8 \div 8$$



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

Division Strategies:

PARTITION



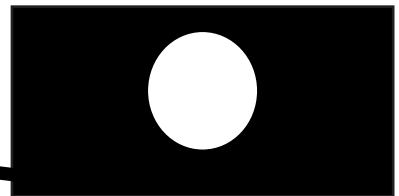
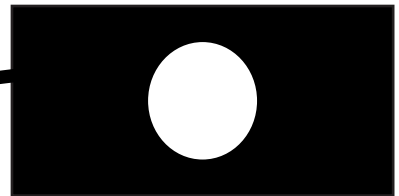
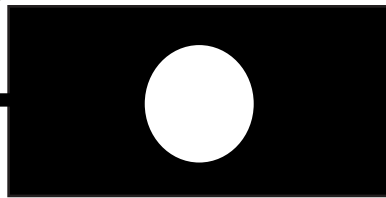
$$12 \div 3 = 4$$

Division Strategies:

PARTITION

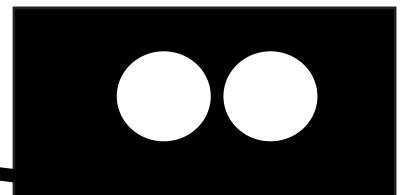
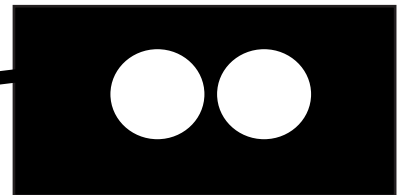
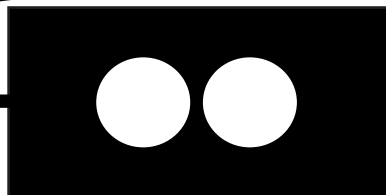
$$3 \div 3 = 1$$

3



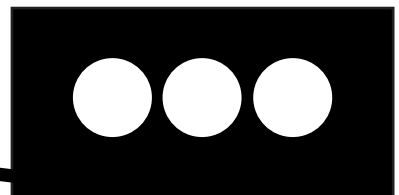
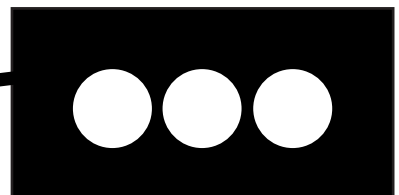
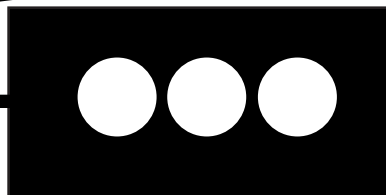
$$6 \div 3 = 2$$

6



$$9 \div 3 = 3$$

9

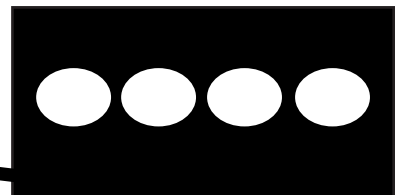
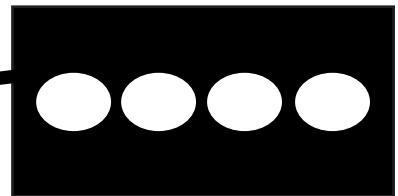
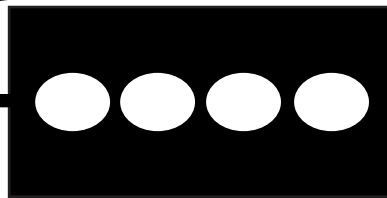


Division Strategies:

PARTITION

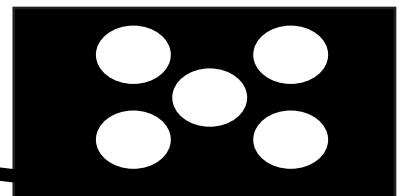
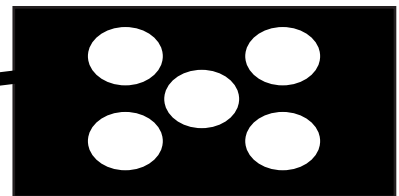
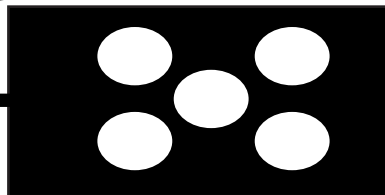
$$12 \div 3 = 4$$

12



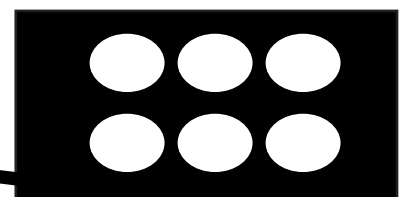
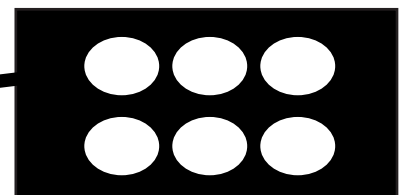
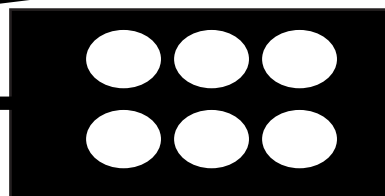
$$15 \div 3 = 5$$

15



$$18 \div 3 = 6$$

18

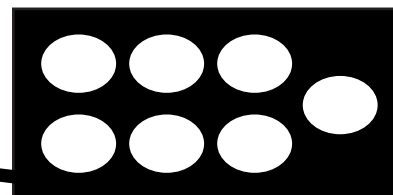
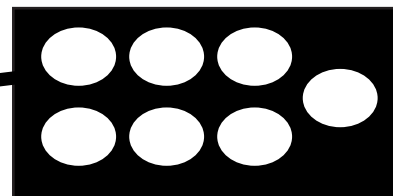
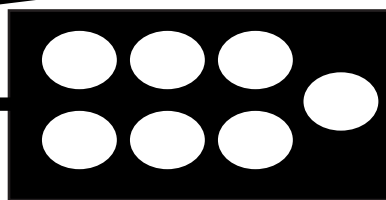


Division Strategies:

PARTITION

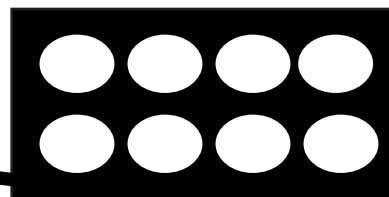
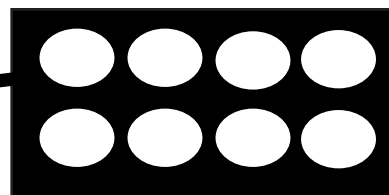
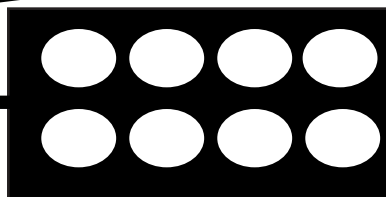
$$21 \div 3 = 7$$

21



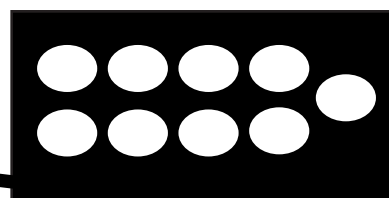
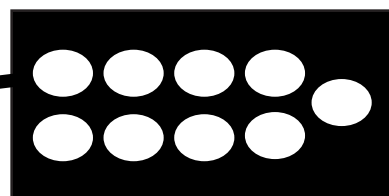
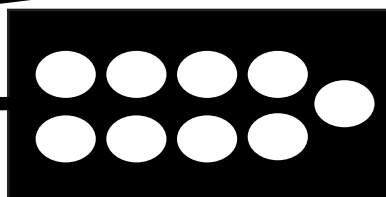
$$24 \div 3 = 8$$

24



$$27 \div 3 = 9$$

27

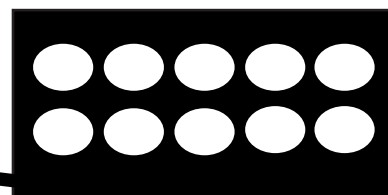
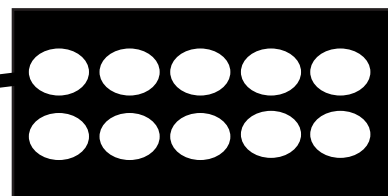
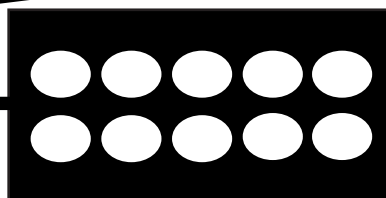


Division Strategies:

PARTITION

$$30 \div 3 = 10$$

30



FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

$$21 \div 3 = \underline{7}$$

think

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

$$3 \div 3 = \underline{1}$$

think

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

$$15 \div 3 = \underline{5}$$

think

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

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

think

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

Division Strategies:

RELATED FACT

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

think

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

$$30 \div 3 = \underline{10}$$

think

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

$$6 \div 3 = \underline{2}$$

think

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

$$18 \div 3 = \underline{6}$$

think

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

Division Strategies:

RELATED FACT

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

think

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

$$24 \div 3 = \underline{8}$$

think

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

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

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

$$18 \div 3 = ?$$

$$18 - 3 = 15$$

$$15 - 3 = 12$$

$$12 - 3 = 9$$

$$9 - 3 = 6$$

$$6 - 3 = 3$$

$$3 - 3 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$18 \div 3 = ?$$

$$18 - \underline{3} = 15$$

$$\underline{15} - 3 = 12$$

$$\underline{12} - 3 = 9$$

$$9 - \underline{3} = 6$$

$$6 - \underline{3} = 3$$

$$\underline{3} - 3 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$21 \div 3 = ?$$

$$21 - \underline{3} = 18$$

$$18 - \underline{3} = 15$$

$$\underline{15} - 3 = 12$$

$$\underline{12} - 3 = 9$$

$$9 - \underline{3} = 6$$

$$6 - \underline{3} = 3$$

$$\underline{3} - 3 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$15 \div 3 = ?$$

$$\underline{15} - 3 = 12$$

$$\underline{12} - 3 = 9$$

$$9 - \underline{3} = 6$$

$$6 - \underline{3} = 3$$

$$\underline{3} - 3 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$24 \div 3 = ?$$

$$24 - \underline{3} = 21$$

$$21 - \underline{3} = 18$$

$$18 - \underline{3} = 15$$

$$\underline{15} - 3 = 12$$

$$\underline{12} - 3 = 9$$

$$9 - \underline{3} = 6$$

$$6 - \underline{3} = 3$$

$$\underline{3} - 3 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$30 \div 3 = ?$$

$$30 - \underline{3} = 27$$

$$27 - \underline{3} = 24$$

$$24 - \underline{3} = 21$$

$$21 - \underline{3} = 18$$

$$18 - \underline{3} = 15$$

$$\underline{15} - 3 = 12$$

$$\underline{12} - 3 = 9$$

$$9 - \underline{3} = 6$$

$$\underline{6} - 3 = 3$$

$$\underline{3} - 3 = 0$$

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

Modeling Division

SKIP COUNTING

DRAW ON A NUMBER LINE

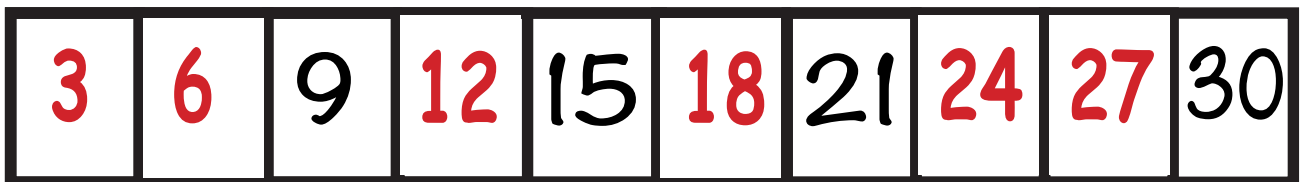
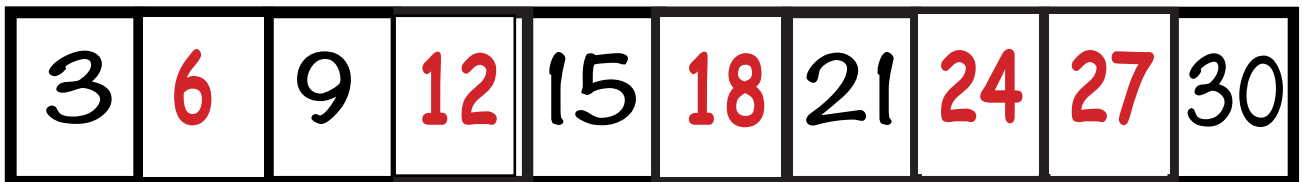


3 6 9 12 15 18 21 24 27 30



3 6 9 12 15 18 21 24 27 30

FILL IN THE MISSING NUMBERS



Modeling Division

SKIP COUNTING

FILL IN THE MISSING NUMBERS

3	6	9	12	15	18	21	24	27	30
---	---	---	----	----	----	----	----	----	----

FILL IN THE MISSING NUMBERS

3	6	9	12	15	18	21	24	27	30
---	---	---	----	----	----	----	----	----	----

FILL IN THE MISSING NUMBERS

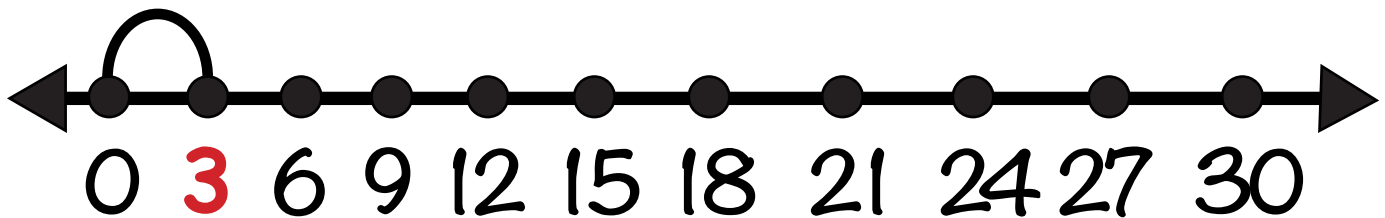
3	6	9	12	15	18	21	24	27	30
---	---	---	----	----	----	----	----	----	----

FILL IN THE MISSING NUMBERS

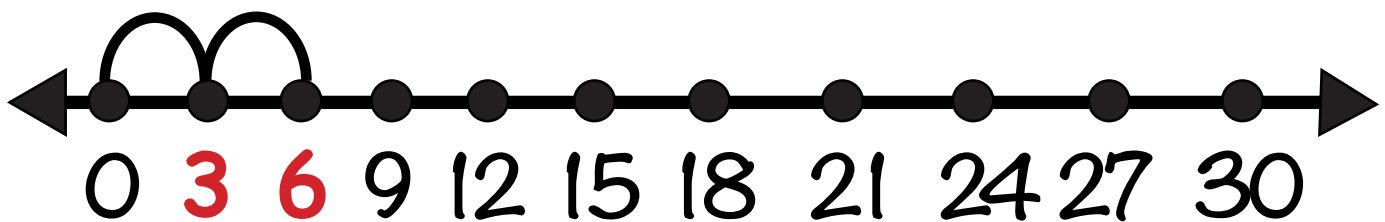
3	6	9	12	15	18	21	24	27	30
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Division Strategies: **SKIP COUNTING**

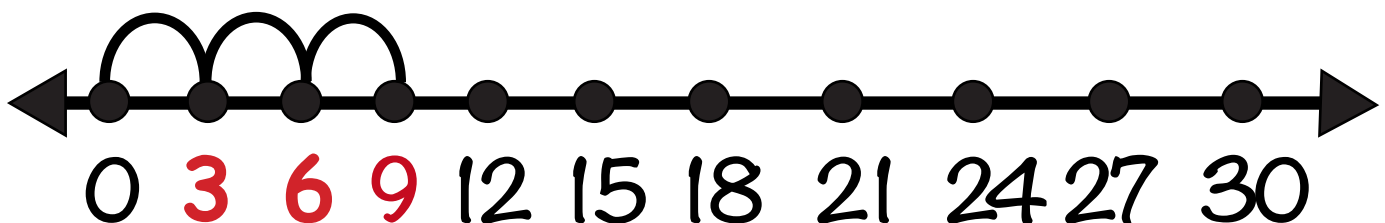
MODEL $3 \div 3$ ON THE NUMBER LINE.



MODEL $6 \div 3$ ON THE NUMBER LINE.

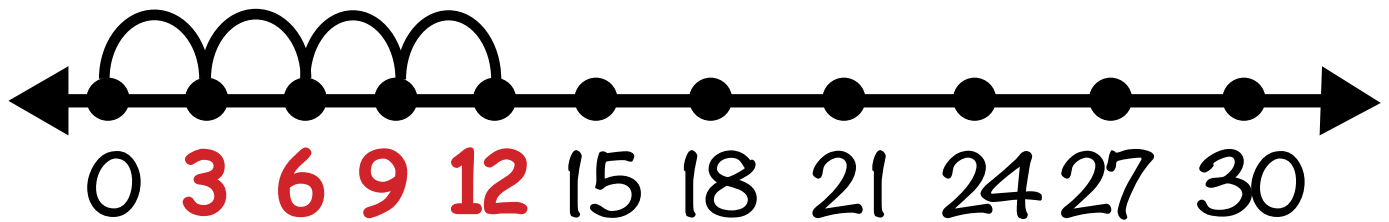


MODEL $9 \div 3$ ON THE NUMBER LINE.

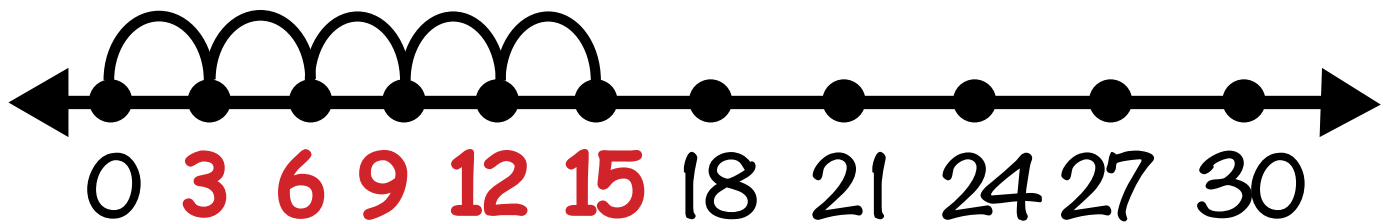


Division Strategies: **SKIP COUNTING**

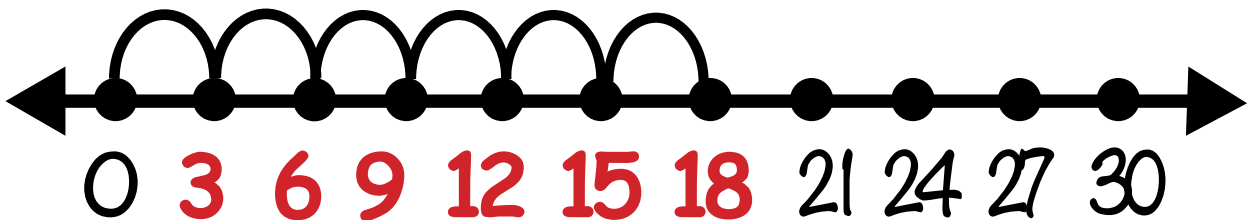
MODEL $12 \div 3$ ON THE NUMBER LINE.



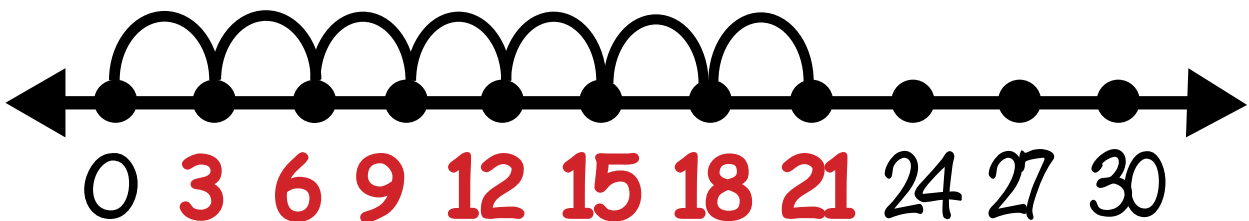
MODEL $15 \div 3$ ON THE NUMBER LINE.



MODEL $18 \div 3$ ON THE NUMBER LINE.

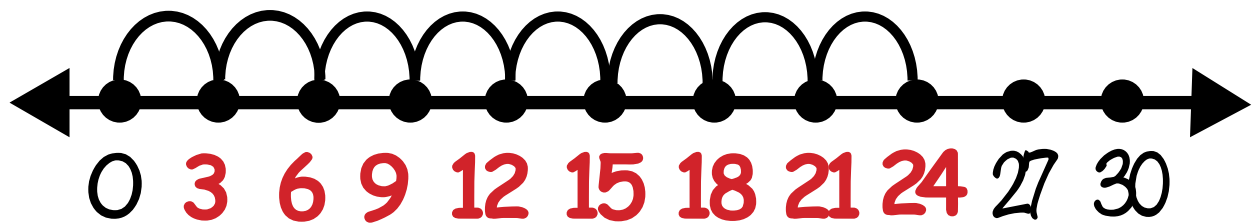


MODEL $21 \div 3$ ON THE NUMBER LINE.

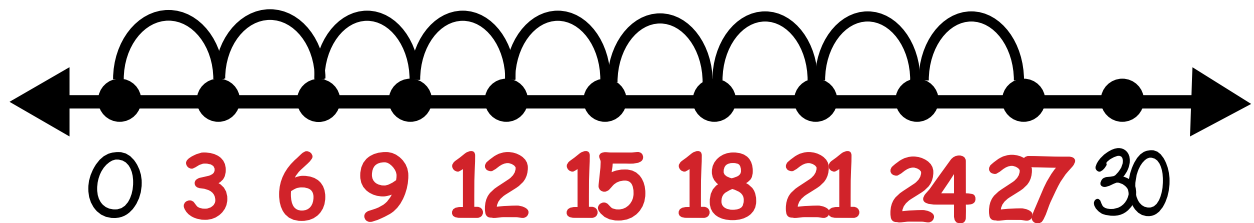


Division Strategies: **SKIP COUNTING**

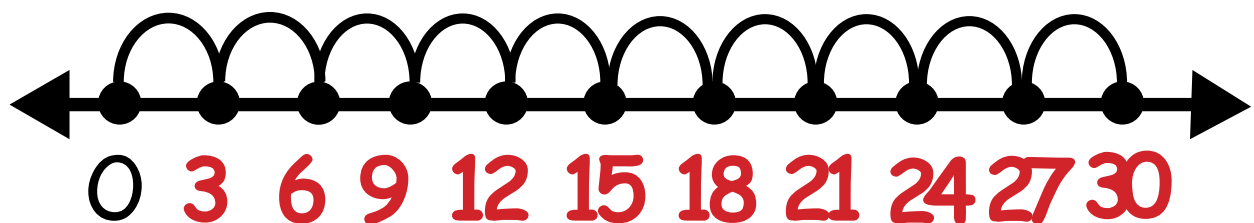
MODEL $24 \div 3$ ON THE NUMBER LINE.



MODEL $27 \div 3$ ON THE NUMBER LINE.



MODEL $30 \div 3$ ON THE NUMBER LINE.

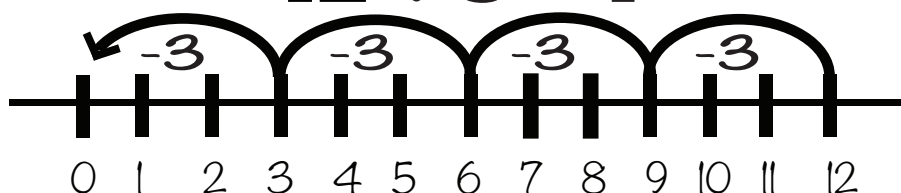


Division Strategies:

NUMBER LINES

THERE ARE 12 COOKIES AND YOU PUT 3 IN A BAG. HOW MANY BAGS DO YOU HAVE?

$$12 \div 3 = 4$$



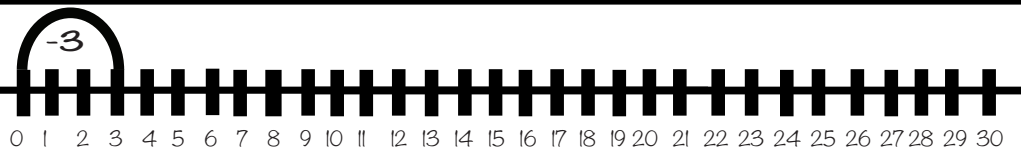
HOW MANY JUMPS UNTIL YOU GET TO ZERO?

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)?

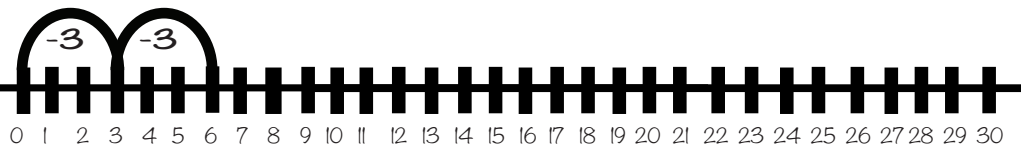
SOLVE THE PROBLEM ON THE NUMBER LINE.

HOW MANY JUMPS UNTIL YOU GET TO ZERO?

$$3 \div 3$$



$$6 \div 3$$



$$9 \div 3$$



$$12 \div 3$$



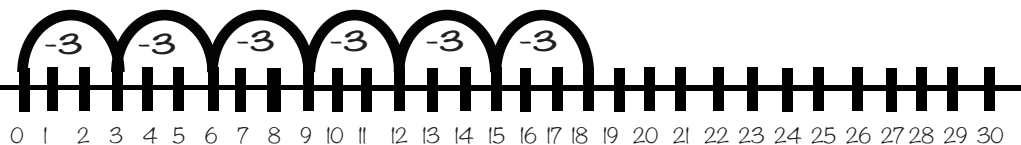
Division Strategies:

NUMBER LINES

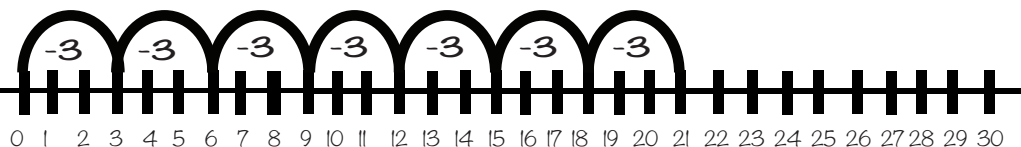
$15 \div 3$



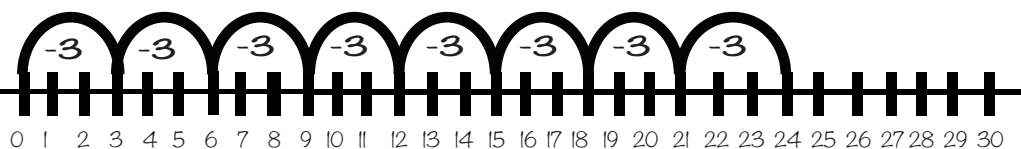
$18 \div 3$



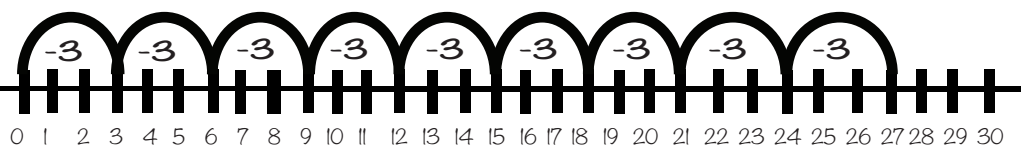
$21 \div 3$



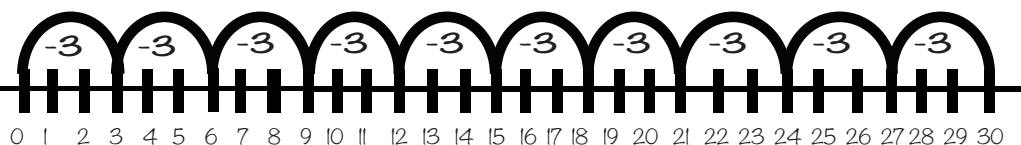
$24 \div 3$



$27 \div 3$



$30 \div 3$



Division Strategies: **SKIP COUNTING CHART**

3

6

9

12

15

18

21

24

27

30

Division Vocabulary

dividend

divisor

quotient

$$15 \div 3 = 5$$

divisor

$$\begin{array}{r} 5 \\ 3 \overline{) 15} \end{array}$$

quotient

dividend

dividend

$$\frac{15}{3} = 5$$

quotient

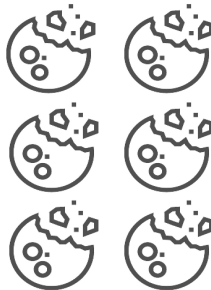
divisor

Array Flashcards

USE THE MODEL TO SOLVE



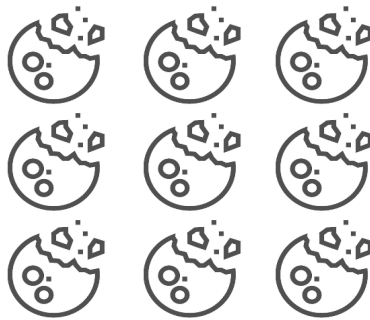
$$3 \div 3 = \underline{1}$$



$$6 \div 3 = \underline{2}$$

Array Flashcards

USE THE MODEL TO SOLVE



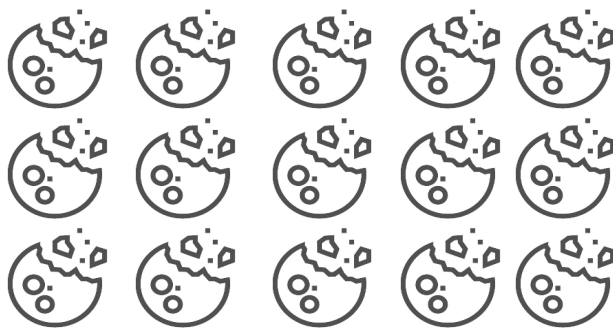
$$9 \div 3 = \underline{3}$$



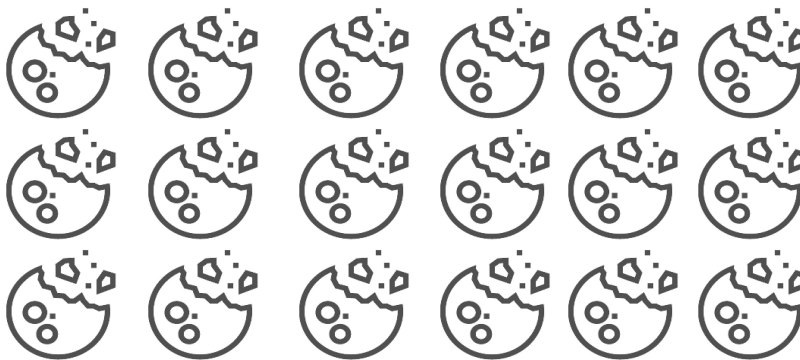
$$12 \div 3 = \underline{4}$$

Array Flashcards

USE THE MODEL TO SOLVE



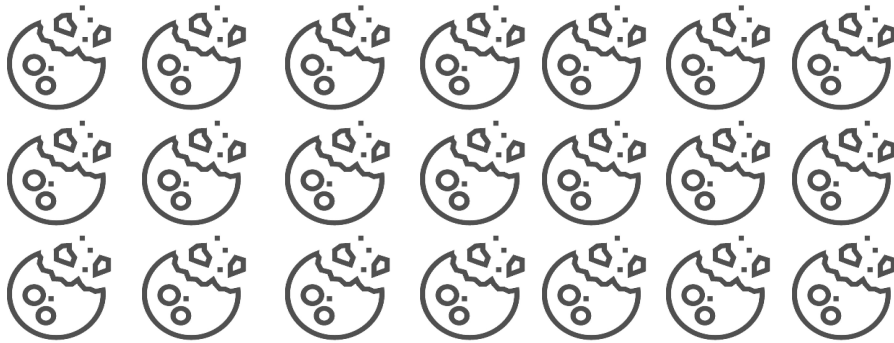
$$15 \div 3 = \underline{5}$$



$$18 \div 3 = \underline{6}$$

Array Flashcards

USE THE MODEL TO SOLVE



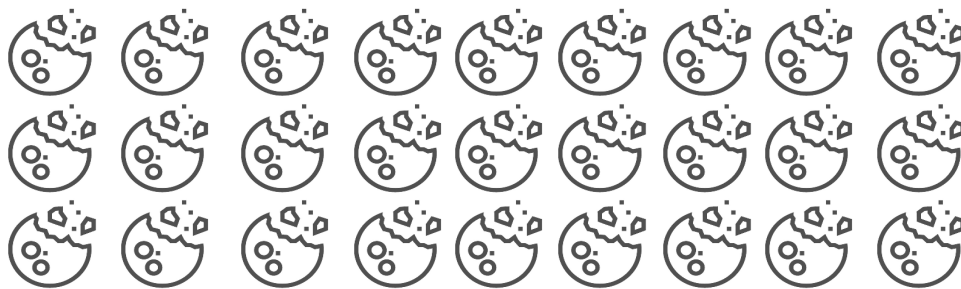
$$21 \div 3 = \underline{7}$$



$$24 \div 3 = \underline{8}$$

Array Flashcards

USE THE MODEL TO SOLVE



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



$$30 \div 3 = \underline{10}$$

Array Flashcards

**WRITE AN EQUATION THAT
MATCHES THE ARRAY.**

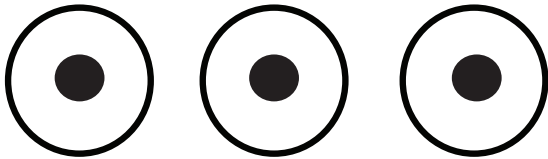
FREE CHOICE

FREE CHOICE

Equal Group Flashcards

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

$$3 \div 3 = \underline{1}$$



$$6 \div 3 = \underline{2}$$



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



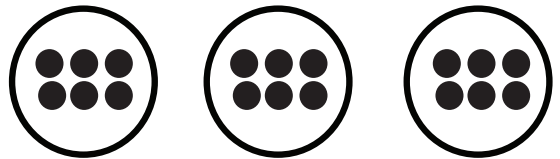
$$12 \div 3 = \underline{4}$$



$$15 \div 3 = \underline{5}$$



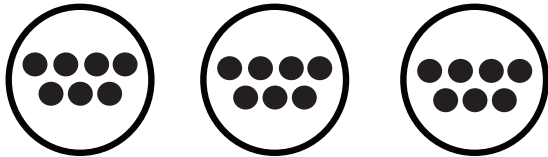
$$18 \div 3 = \underline{6}$$



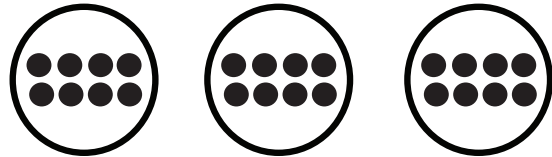
Equal Group Flashcards

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

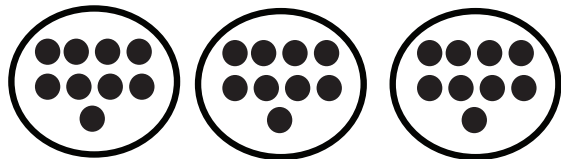
$$21 \div 3 = \underline{7}$$



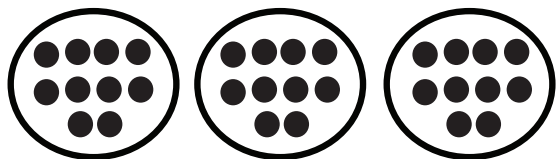
$$24 \div 3 = \underline{8}$$



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



$$30 \div 3 = \underline{10}$$



Regular Flashcards

$$0 \div 3$$

$$3 \div 3$$

$$6 \div 3$$

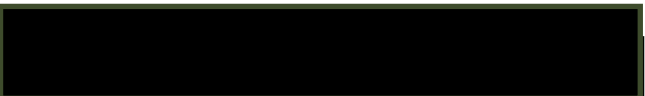
$$9 \div 3$$

$$12 \div 3$$

$$15 \div 3$$

Regular Flashcards


$$18 \div 3$$


$$21 \div 3$$


$$24 \div 3$$


$$27 \div 3$$


$$30 \div 3$$

Dividing by 3 Calling Cards

0	1	2	3	4
5	6	7	8	9
		10		

Dividing by 3 4 IN A ROW

CHECK YOUR
ANSWERS USING
YOUR BOOKMARK.

$27 \div 3 = ?$

$6 \div 3 = ?$

$30 \div 3 = ?$

$15 \div 3 = ?$

$0 \div 3 = ?$

$15 \div 3 = ?$

$18 \div 3 = ?$

$21 \div 3 = ?$

$24 \div 3 = ?$

$27 \div 3 = ?$

$30 \div 3 = ?$

$9 \div 3 = ?$

$9 \div 3 = ?$

$3 \div 3 = ?$

$18 \div 3 = ?$

$12 \div 3 = ?$

$6 \div 3 = ?$

$15 \div 3 = ?$

$0 \div 3 = ?$

$21 \div 3 = ?$

$3 \div 3 = ?$

$9 \div 3 = ?$

$24 \div 3 = ?$

$12 \div 3 = ?$

$30 \div 3 = ?$

$0 \div 3 = ?$

$21 \div 3 = ?$

$6 \div 3 = ?$

$15 \div 3 = ?$

$24 \div 3 = ?$

$9 \div 3 = ?$

$21 \div 3 = ?$

$18 \div 3 = ?$

$0 \div 3 = ?$

$6 \div 3 = ?$

$30 \div 3 = ?$

$12 \div 3 = ?$

$15 \div 3 = ?$

$30 \div 3 = ?$

$24 \div 3 = ?$

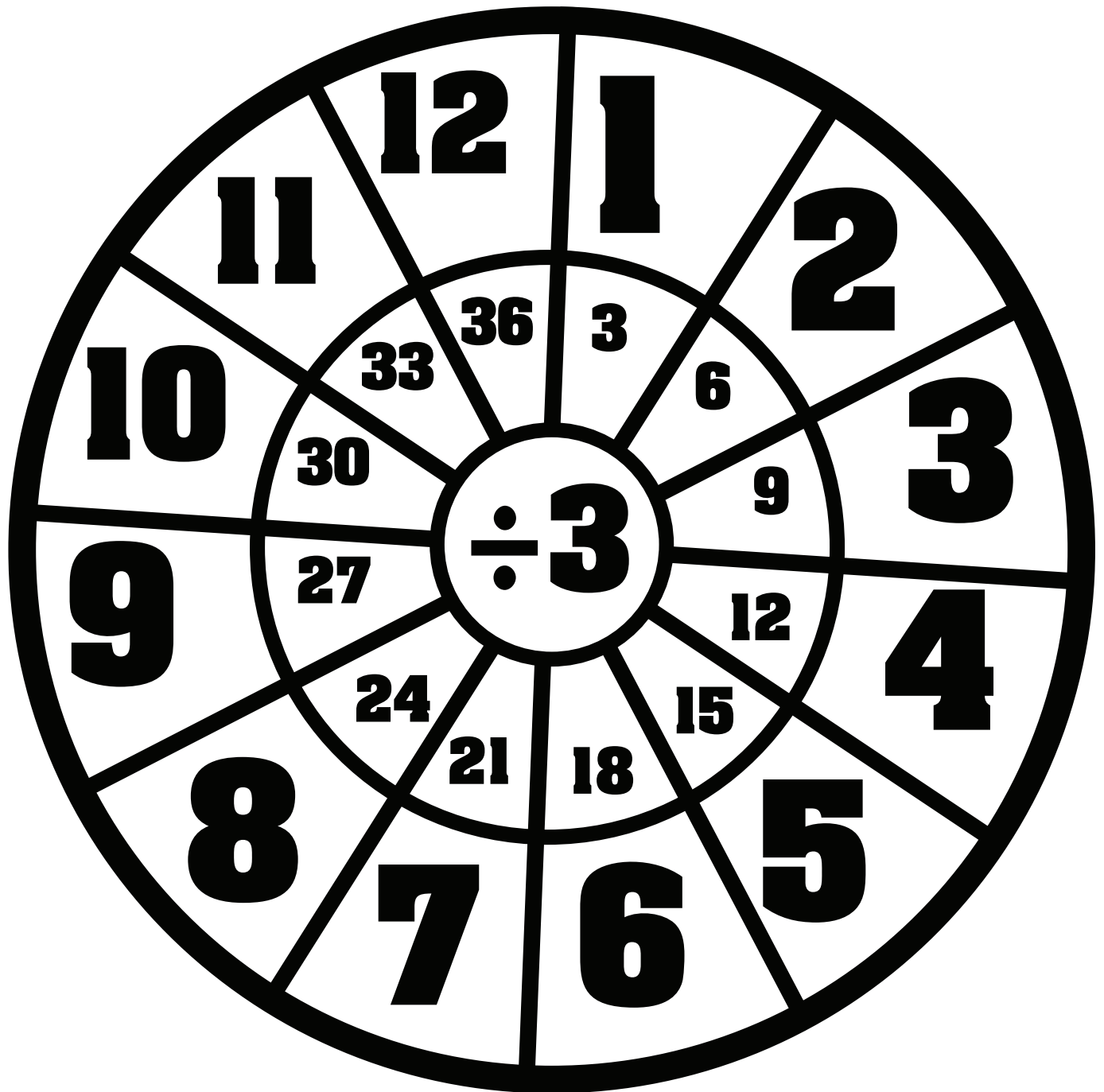
$21 \div 3 = ?$

$27 \div 3 = ?$

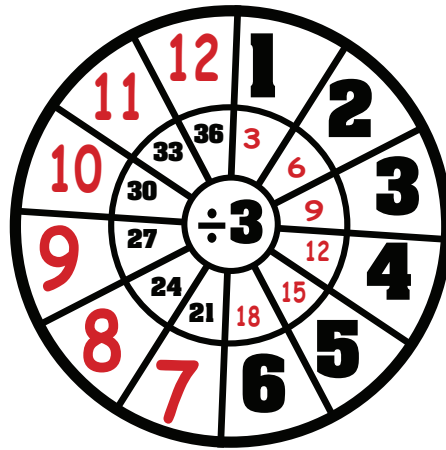
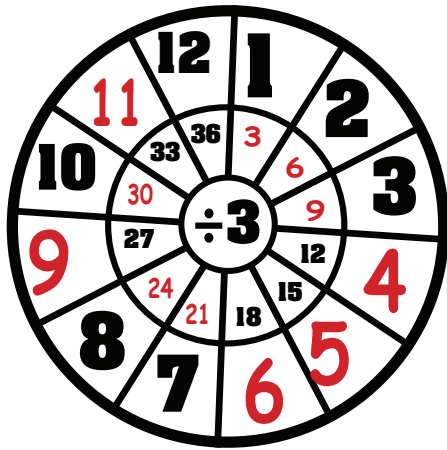
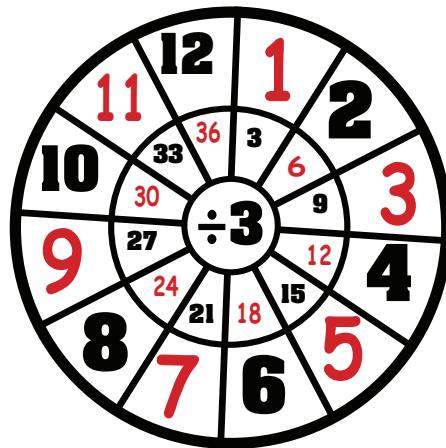
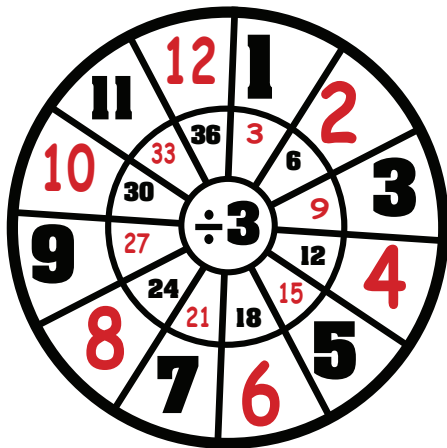
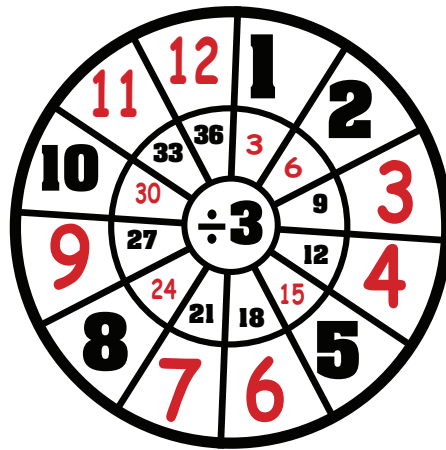
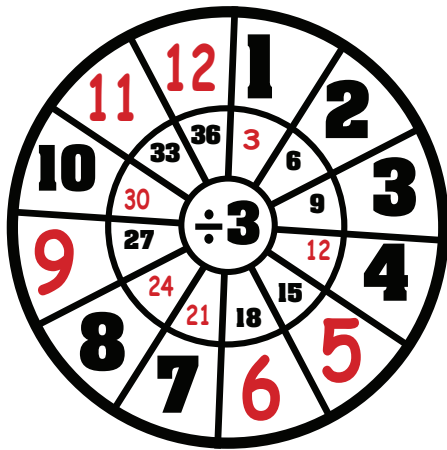
Instructions:

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



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

$$\begin{array}{r} 3 \\ \hline 3 \end{array} \div \begin{array}{r} 1 \\ \hline 3 \end{array} = \begin{array}{r} 3 \\ \hline 1 \end{array}$$



$$\begin{array}{r} 3 \\ \hline 2 \end{array} \times \begin{array}{r} 2 \\ \hline 3 \end{array} = \begin{array}{r} 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \hline 6 \end{array} \div \begin{array}{r} 2 \\ \hline 3 \end{array} = \begin{array}{r} 3 \\ \hline 2 \end{array}$$



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

$$\begin{array}{r} 9 \\ \hline 9 \end{array} \div \begin{array}{r} 3 \\ \hline 3 \end{array} = \begin{array}{r} 3 \\ \hline 3 \end{array}$$



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

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

PICTURE FACT FAMILY



$$\begin{array}{r} 3 \\ \hline 5 \\ \hline 15 \\ \hline 15 \end{array} \times \begin{array}{r} 5 \\ \hline 3 \\ \hline 5 \\ \hline 3 \end{array} = \begin{array}{r} 15 \\ \hline 15 \\ \hline 3 \\ \hline 5 \end{array}$$



$$\begin{array}{r} 3 \\ \hline 6 \\ \hline 18 \\ \hline 18 \end{array} \times \begin{array}{r} 6 \\ \hline 3 \\ \hline 6 \\ \hline 3 \end{array} = \begin{array}{r} 18 \\ \hline 18 \\ \hline 3 \\ \hline 6 \end{array}$$



$$\begin{array}{r} 3 \\ \hline 7 \\ \hline 21 \\ \hline 21 \end{array} \times \begin{array}{r} 7 \\ \hline 3 \\ \hline 7 \\ \hline 3 \end{array} = \begin{array}{r} 21 \\ \hline 21 \\ \hline 3 \\ \hline 7 \end{array}$$



$$\begin{array}{r} 3 \\ \hline 8 \\ \hline 24 \\ \hline 24 \end{array} \times \begin{array}{r} 8 \\ \hline 3 \\ \hline 8 \\ \hline 3 \end{array} = \begin{array}{r} 24 \\ \hline 24 \\ \hline 3 \\ \hline 8 \end{array}$$

PICTURE FACT FAMILY

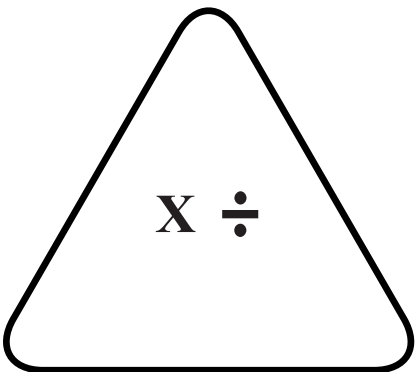


$$\begin{array}{r} 3 \\ \hline \end{array} \times \begin{array}{r} 9 \\ \hline \end{array} = \begin{array}{r} 27 \\ \hline \end{array}$$
$$\begin{array}{r} 9 \\ \hline \end{array} \times \begin{array}{r} 3 \\ \hline \end{array} = \begin{array}{r} 27 \\ \hline \end{array}$$
$$\begin{array}{r} 27 \\ \hline \end{array} \div \begin{array}{r} 9 \\ \hline \end{array} = \begin{array}{r} 3 \\ \hline \end{array}$$
$$\begin{array}{r} 27 \\ \hline \end{array} \div \begin{array}{r} 3 \\ \hline \end{array} = \begin{array}{r} 9 \\ \hline \end{array}$$

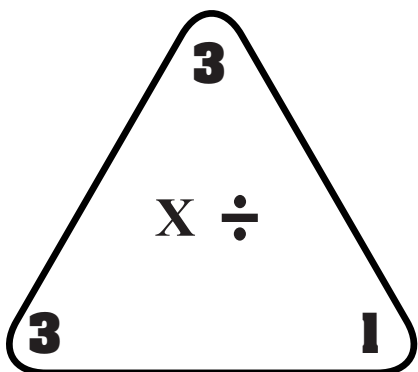
MAKE YOUR OWN

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

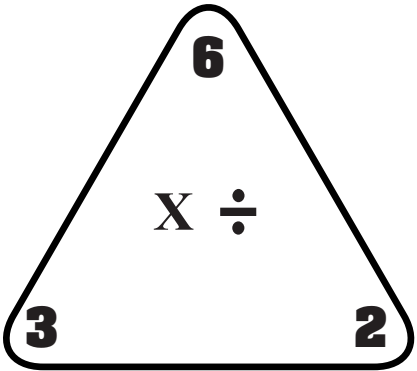
TRIANGLE FACT FAMILY



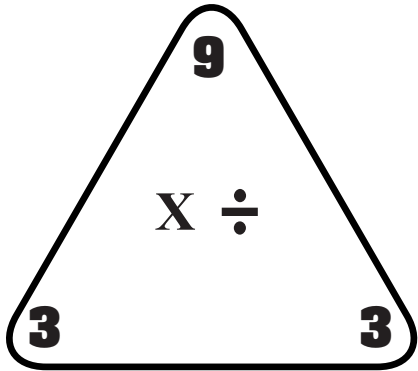
	x		=	
	x		=	
	÷		=	
	÷		=	



3	x	1	=	3
1	x	3	=	3
3	÷	1	=	3
3	÷	3	=	1



3	x	2	=	6
2	x	3	=	6
6	÷	2	=	3
6	÷	3	=	2



3	x	3	=	9
3	x	3	=	9
9	÷	3	=	3
9	÷	3	=	3

TRIANGLE FACT FAMILY

12

3 **4**

X ÷

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

15

3 **5**

X ÷

$$\begin{array}{r} 3 \times 5 = 15 \\ 5 \times 3 = 15 \\ 15 \div 5 = 3 \\ 15 \div 3 = 5 \end{array}$$

18

3 **6**

X ÷

$$\begin{array}{r} 3 \times 6 = 18 \\ 6 \times 3 = 18 \\ 18 \div 6 = 3 \\ 18 \div 3 = 6 \end{array}$$

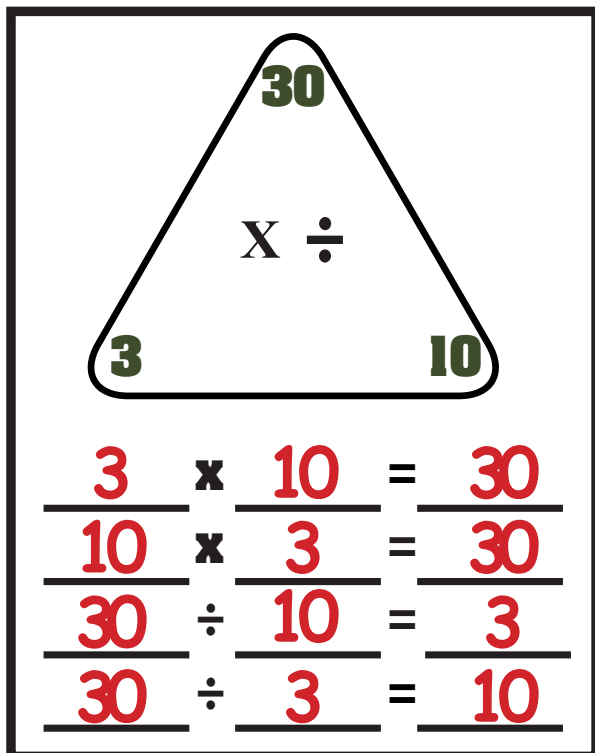
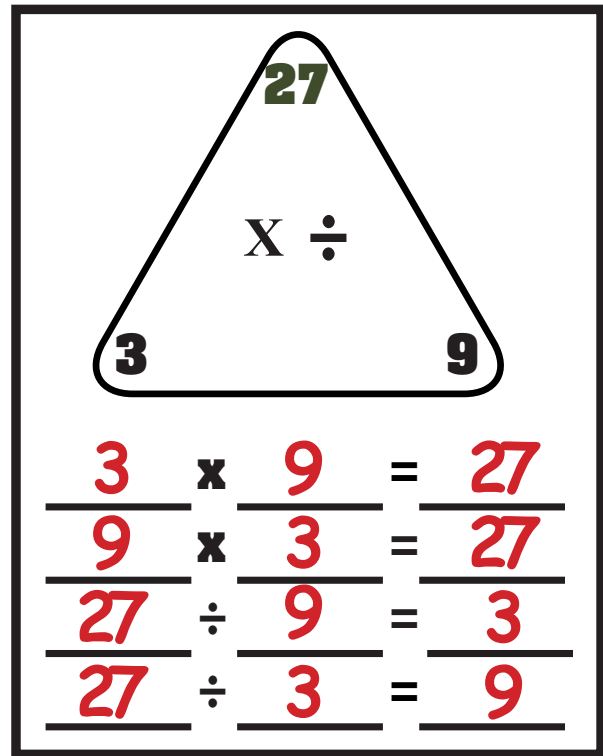
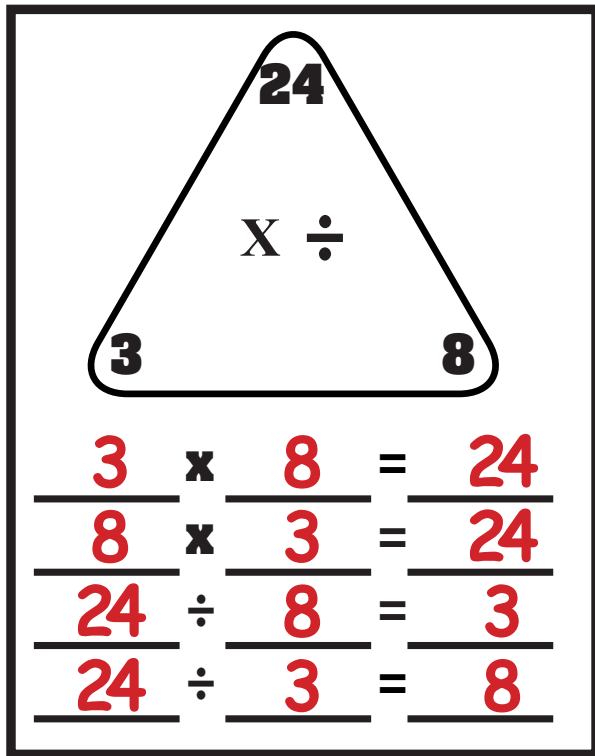
21

3 **7**

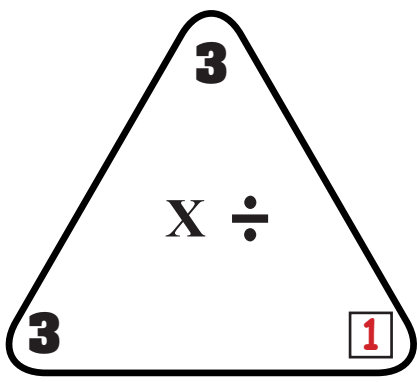
X ÷

$$\begin{array}{r} 3 \times 7 = 21 \\ 7 \times 3 = 21 \\ 21 \div 7 = 3 \\ 21 \div 3 = 7 \end{array}$$

TRIANGLE FACT FAMILY



TRIANGLE FACT FAMILY



3

X ÷

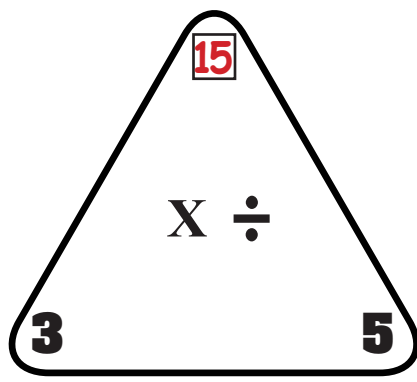
3

1

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

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

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

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


15

X ÷

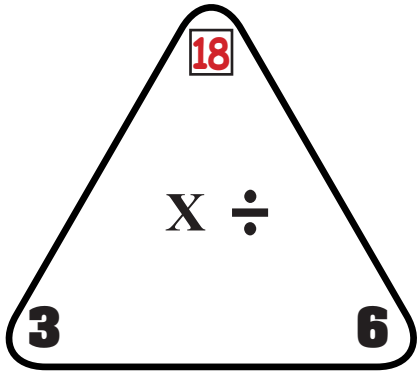
3

5

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 15 \\ \div 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 15 \\ \div 3 \\ \hline 5 \end{array}$$


18

X ÷

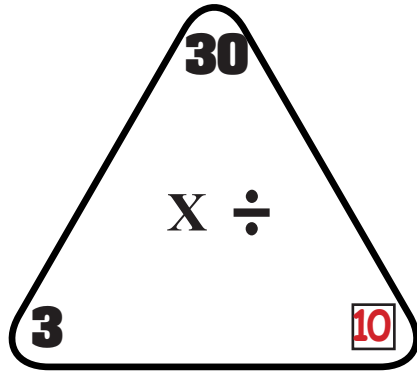
3

6

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 18 \\ \div 6 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 18 \\ \div 3 \\ \hline 6 \end{array}$$


30

X ÷

3

10

$$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 30 \\ \div 10 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 30 \\ \div 3 \\ \hline 10 \end{array}$$

TRIANGLE FACT FAMILY

Triangle fact family for 3, 6, and 18:

$$\begin{array}{rcl} 3 & \times & 6 = 18 \\ 6 & \times & 3 = 18 \\ 18 & \div & 3 = 6 \\ 18 & \div & 6 = 3 \end{array}$$

Triangle fact family for 3, 3, and 9:

$$\begin{array}{rcl} 3 & \times & 3 = 9 \\ 3 & \times & 3 = 9 \\ 9 & \div & 3 = 3 \\ 9 & \div & 3 = 3 \end{array}$$

Triangle fact family for 3, 4, and 12:

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

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM.

THE BAKERY HAD 12 DONUTS IN 3 ROWS. THEY HAD THE SAME AMOUNT IN EACH ROW. HOW MANY WERE IN EACH ROW?

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

THE BAKERY HAD 15 DONUTS. THEY PUT 3 IN A ROW. HOW MANY ROWS DID THEY MAKE?

$$\underline{15} \div \underline{3} = \underline{5}$$

THE BAKERY MADE 30 MUFFINS. THEY PACKED 3 IN A BOX. HOW MANY BOXES DID THEY USE?

$$\underline{30} \div \underline{3} = \underline{10}$$

THE BAKERY MADE 9 HAND PIES. THEY USED 3 BOXES. THEY PUT THE SAME AMOUNT OF PIES IN EACH BOX. HOW MANY HAND PIES DID THEY PUT IN EACH BOX?

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

QUIZ

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

**I CAN SKIP COUNT TO
DIVIDE BY 3'S!**

**I CAN USE EQUAL GROUPS
TO DIVIDE BY 3'S!**

**I CAN USE ARRAYS TO
MODEL DIVIDING BY 3'S!**

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

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

**MY STRATEGY FOR THINKING
ABOUT DIVIDING BY 3'S IS....**

CERTIFICATE

★ **GREAT MATH WORK!** ★

HAS SUCCESSFULLY PRACTICED DIVIDING

BY 3'S!

GREAT JOB!

TEACHER: _____ DATE: _____

Looking at the 3's

$$3 \div 3 = 1$$

$$6 \div 3 = 2$$

$$9 \div 3 = 3$$

$$12 \div 3 = 4$$

$$15 \div 3 = 5$$

$$18 \div 3 = 6$$

$$21 \div 3 = 7$$

$$24 \div 3 = 8$$

$$27 \div 3 = 9$$

$$30 \div 3 = 10$$

Bookmarks

3

Division

$$3 \div 3 = 1$$

$$6 \div 3 = 2$$

$$9 \div 3 = 3$$

$$12 \div 3 = 4$$

$$15 \div 3 = 5$$

$$18 \div 3 = 6$$

$$21 \div 3 = 7$$

$$24 \div 3 = 8$$

$$27 \div 3 = 9$$

$$30 \div 3 = 10$$

DIVIDING A NUMBER BY 3

Hint: Think Multiplication!

$3 \times ? = _$

3

DIVISION

$$3 \div 3 = 1$$

$$6 \div 3 = 2$$

$$9 \div 3 = 3$$

$$12 \div 3 = 4$$

$$15 \div 3 = 5$$

$$18 \div 3 = 6$$

$$21 \div 3 = 7$$

$$24 \div 3 = 8$$

$$27 \div 3 = 9$$

$$30 \div 3 = 10$$

DIVIDING A NUMBER BY 3

Hint: Think Multiplication!

$3 \times ? = _$

3

DIVISION

$$3 \div 3 = 1$$

$$6 \div 3 = 2$$

$$9 \div 3 = 3$$

$$12 \div 3 = 4$$

$$15 \div 3 = 5$$

$$18 \div 3 = 6$$

$$21 \div 3 = 7$$

$$24 \div 3 = 8$$

$$27 \div 3 = 9$$

$$30 \div 3 = 10$$

DIVIDING A NUMBER BY 3

Hint: Think Multiplication!

$3 \times ? = _$