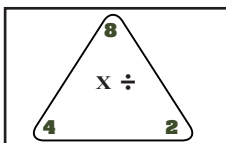


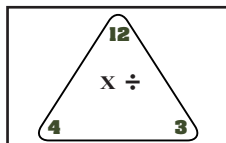
DIVIDING by 4

WORK BOOKLET

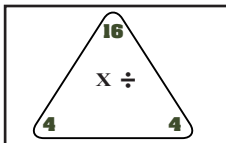
TRIANGLE FACT FAMILY



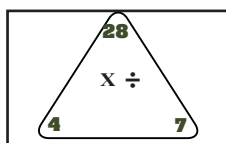
x _____ = _____
x _____ = _____
÷ _____ = _____
÷ _____ = _____



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

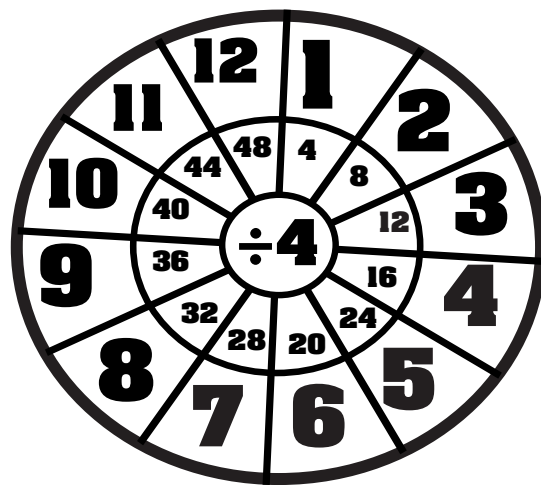


x _____ = _____
x _____ = _____
÷ _____ = _____
÷ _____ = _____

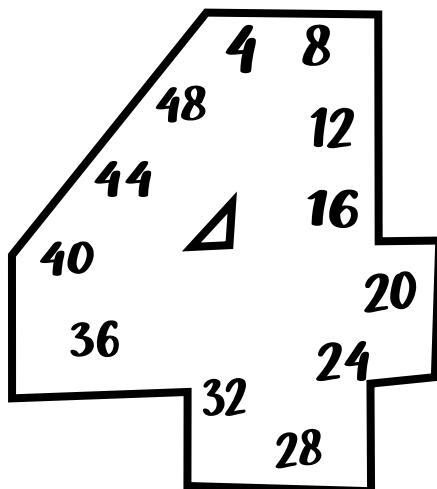


x _____ = _____
x _____ = _____
÷ _____ = _____
÷ _____ = _____

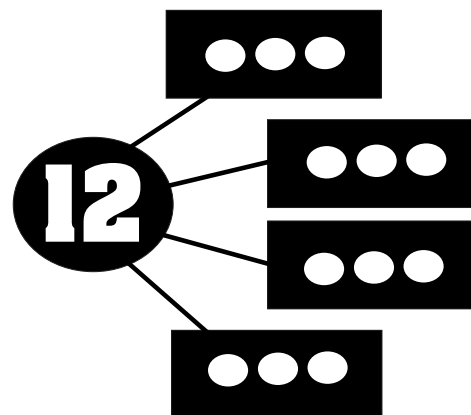
DIVISION WHEELS



MULTIPLES OF 4



Division Strategies: PARTITION

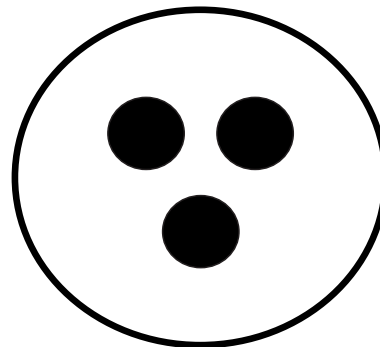
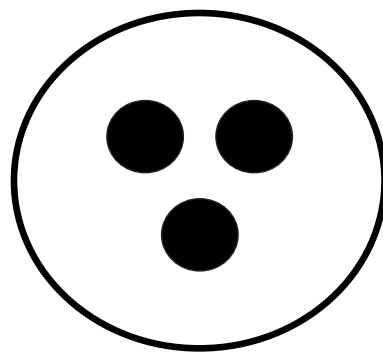
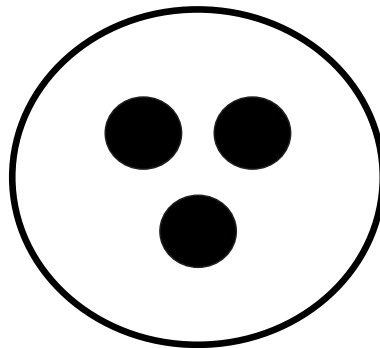
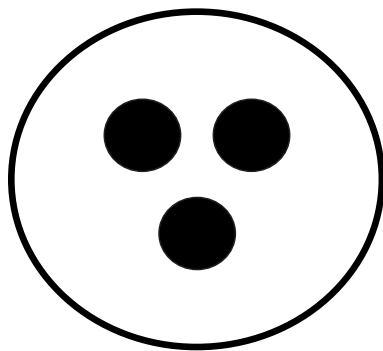


$$12 \div 4 = 3$$

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



44

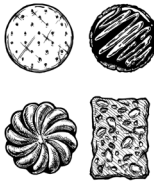


48

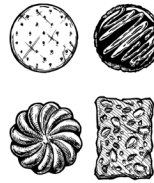


MULTIPLES OF FOUR

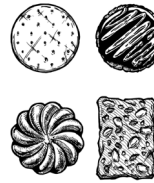
4



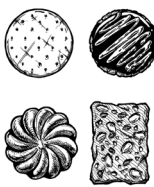
8



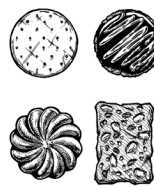
12



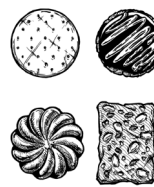
16



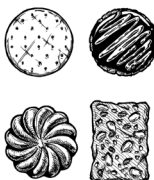
20



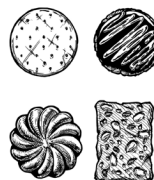
24



28



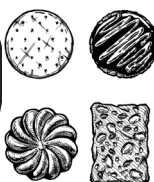
32



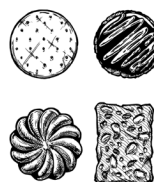
36



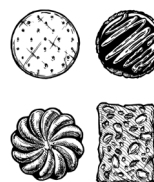
40



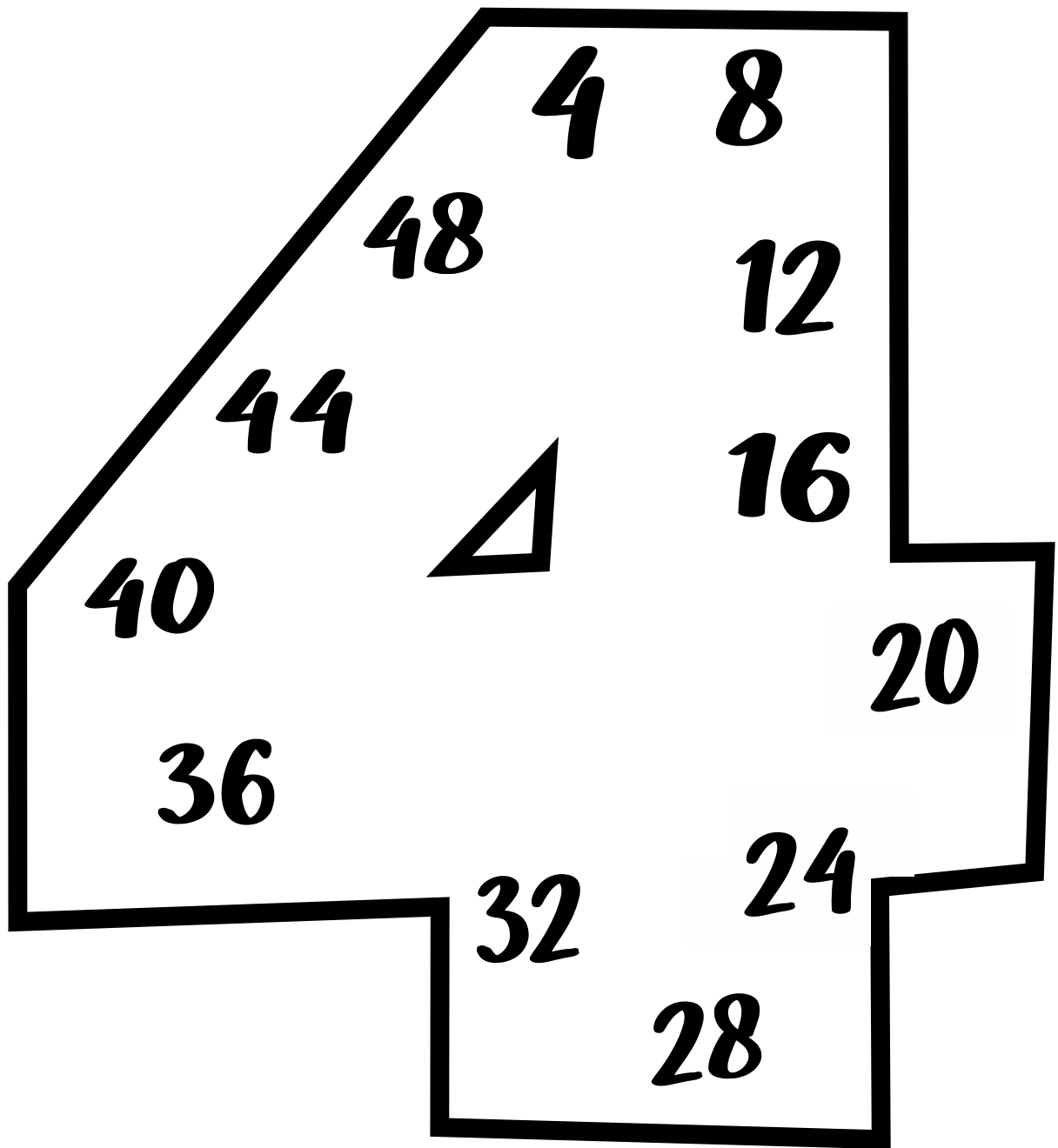
44

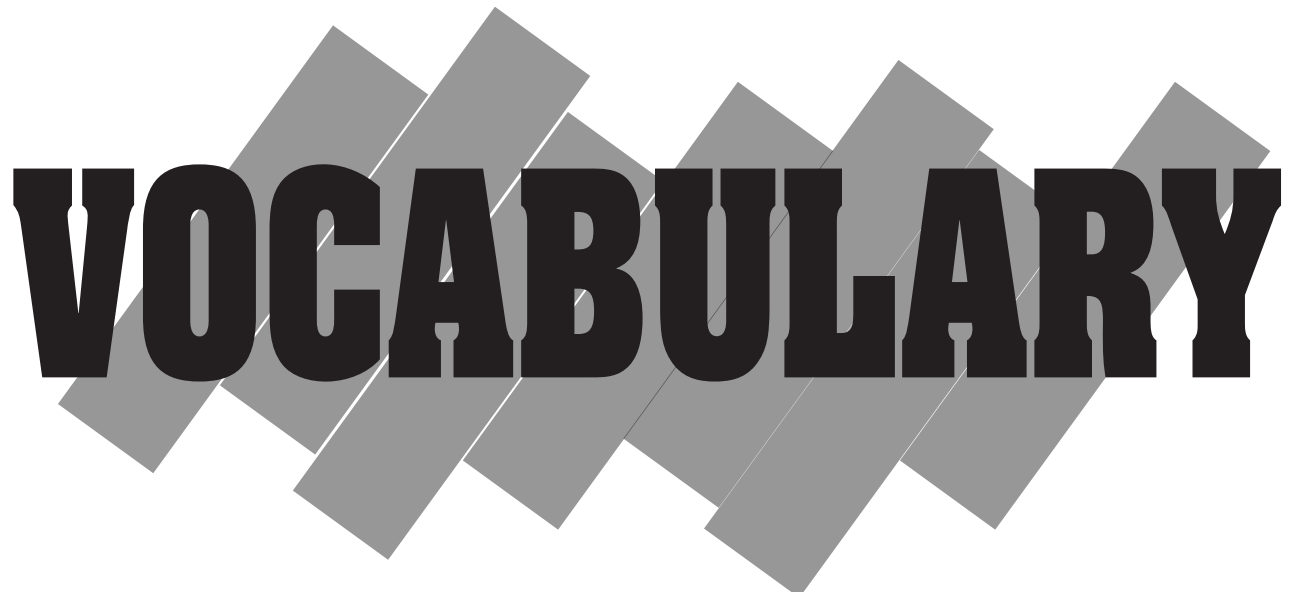


48



MULTIPLES OF 4



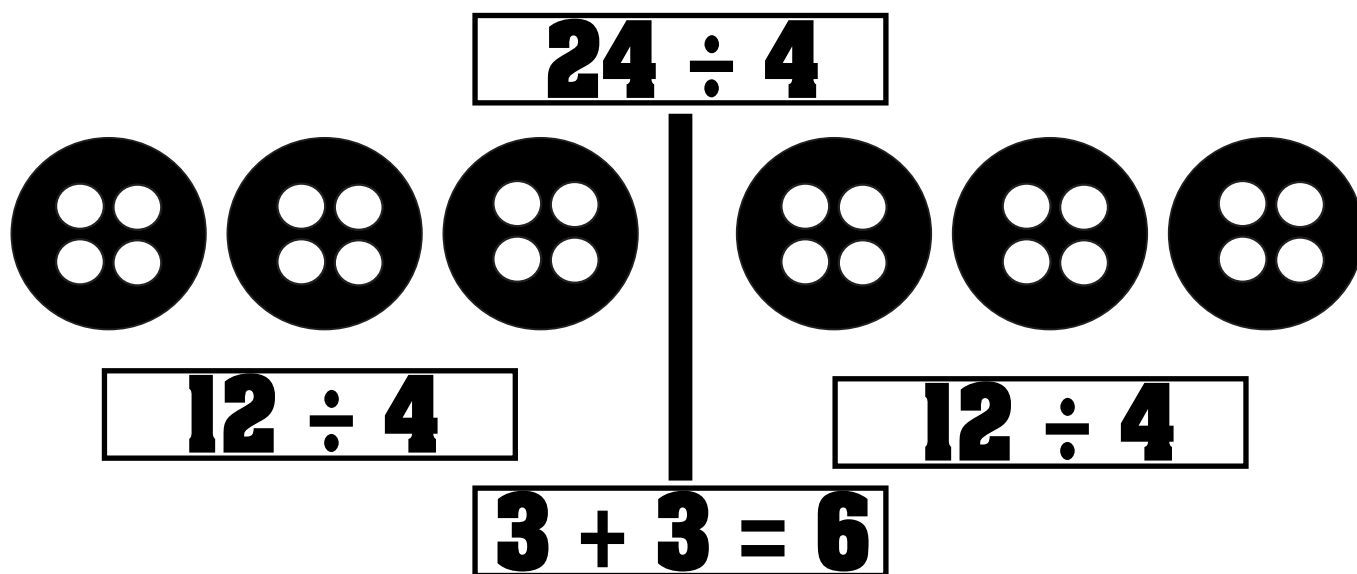


VOCABULARY

DISTRIBUTIVE PROPERTY

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

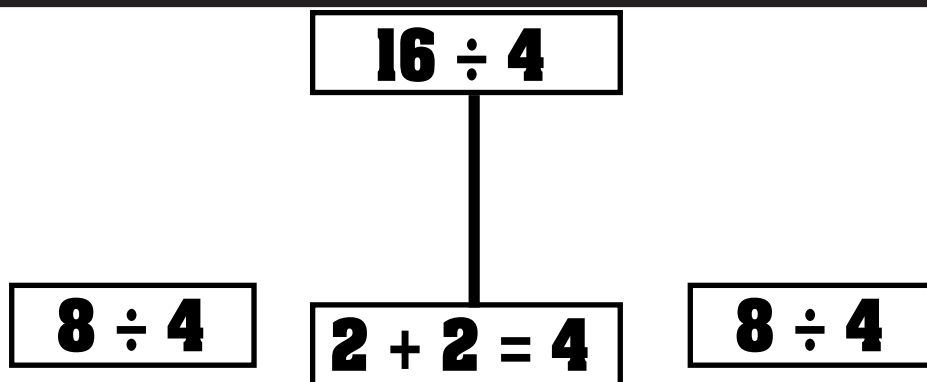
$$24 \div 4 = (12 \div 4) + (12 \div 4) = 4 + 4 = 8$$



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

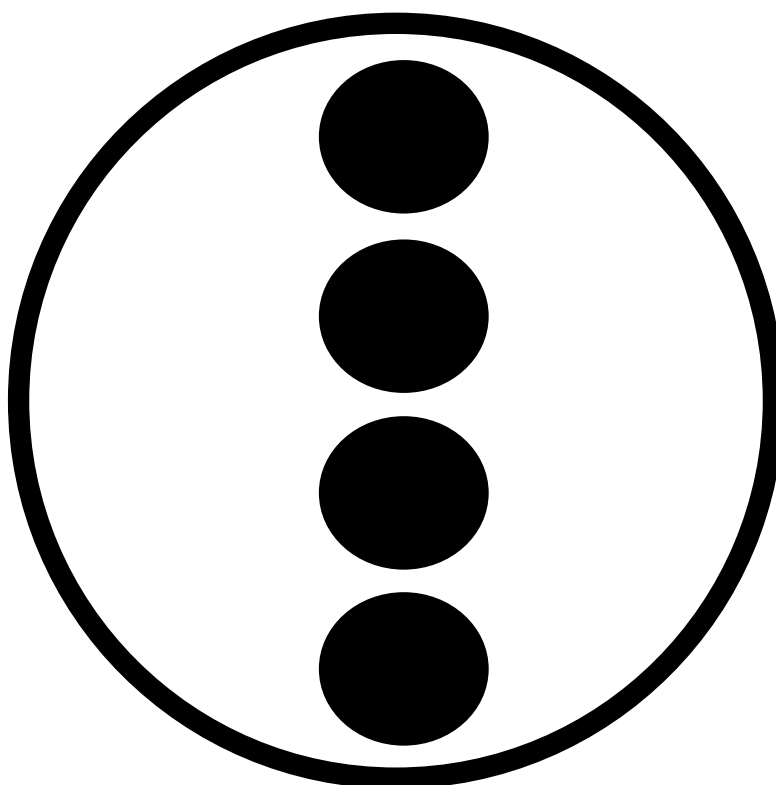
DIVIDING A NUMBER BY 1

$$4 \div 1 = 4$$

$$16 \div 1$$

$$12 \div 1$$

$$8 \div 1$$



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

ZERO PROPERTY

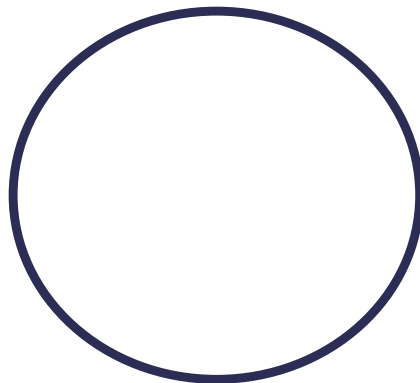
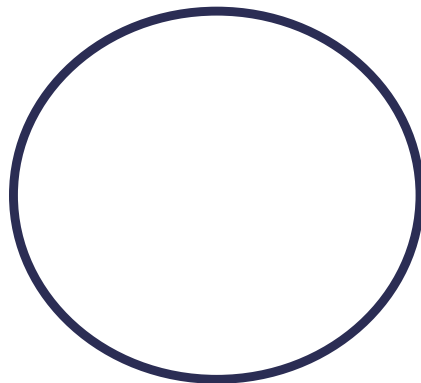
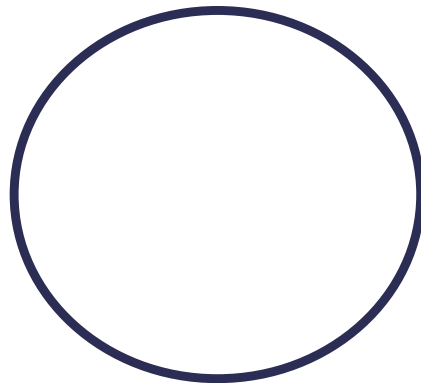
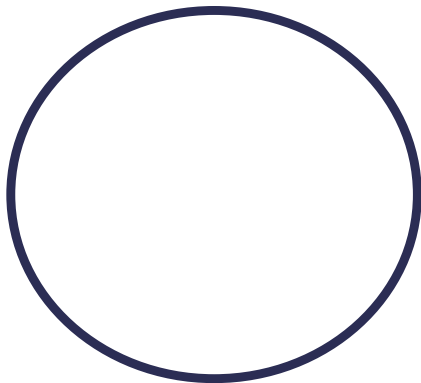
DIVIDING 0 BY A NUMBER

$$0 \div 4 = 0$$

$$0 \div 2$$

$$0 \div 10$$

$$0 \div 1$$



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

DIVISION BY ITSELF PROPERTY

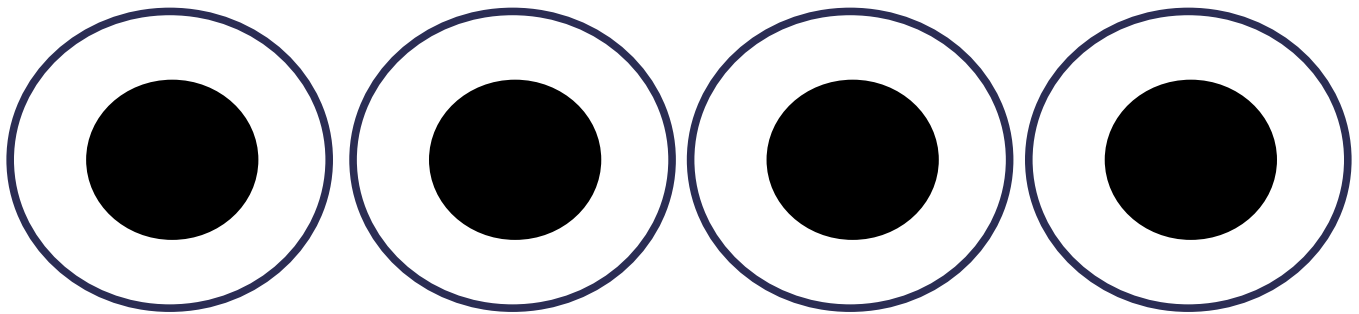
DIVIDING A NUMBER BY ITSELF

$$4 \div 4 = 1$$

$$3 \div 3$$

$$7 \div 7$$

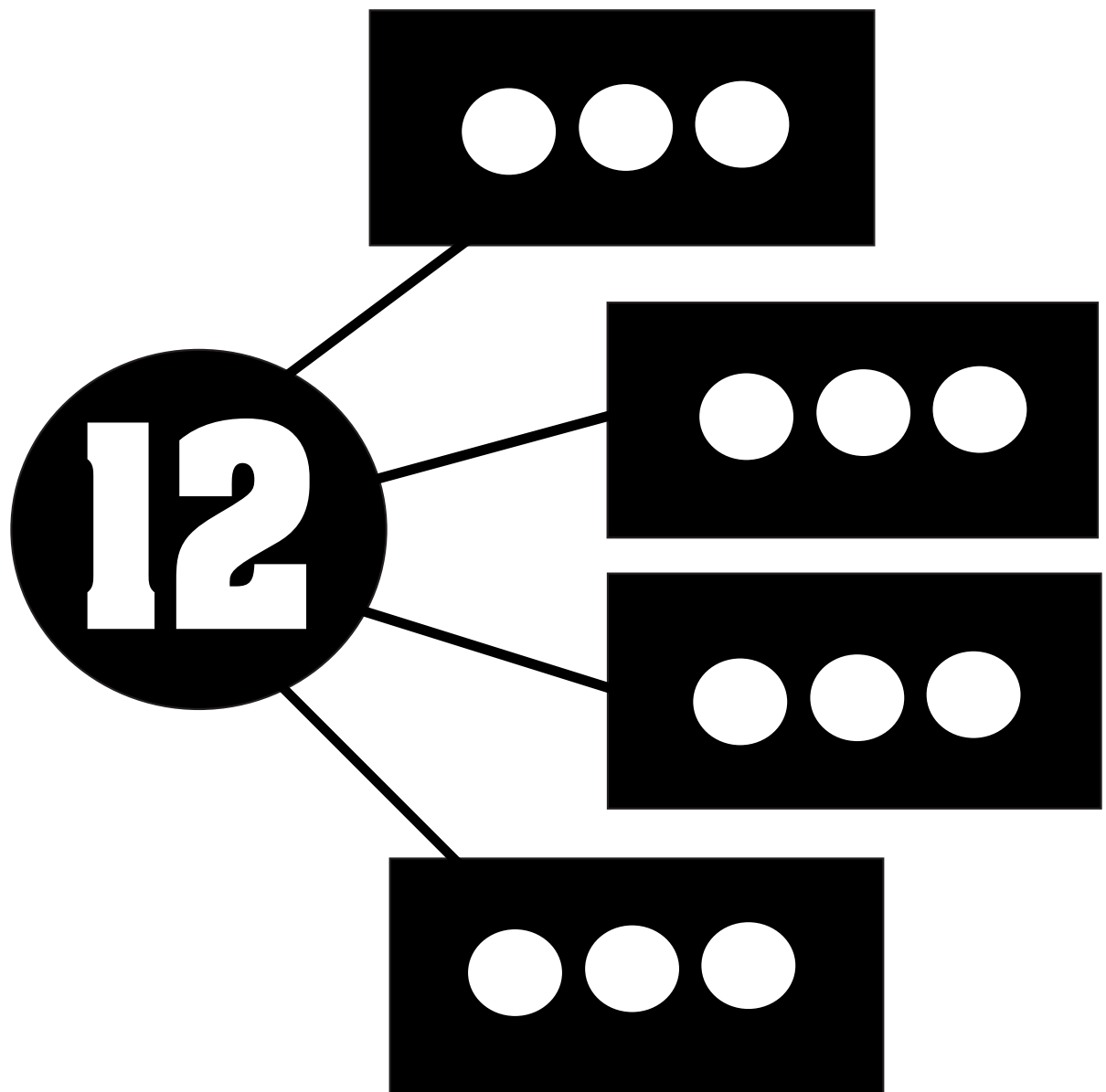
$$8 \div 8$$



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

Division Strategies:

PARTITION



$$12 \div 4 = 3$$

Division Strategies:

PARTITION

$$4 \div 4 = 1$$

$$8 \div 4 = 2$$

$$12 \div 4 = 3$$

Division Strategies:

PARTITION

$$16 \div 4 = 4$$

$$20 \div 4 = 5$$

$$24 \div 4 = 6$$

Division Strategies:

PARTITION

$$28 \div 4 = 7$$

$$32 \div 4 = 8$$

$$36 \div 4 = 9$$

Division Strategies:

PARTITION

$$40 \div 4 = 10$$

FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

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

think

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

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

think

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

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

think

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

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

think

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

Division Strategies:

RELATED FACT

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

think

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

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

think

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

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

think

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

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

think

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

Division Strategies:

RELATED FACT

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

think

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

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

think

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

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

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

$$24 \div 4 = ?$$

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

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

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

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

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

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

$$24 \div 4 = \square$$

Division Strategies:

REPEATED SUBTRACTION

$$28 \div 4 = ?$$

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

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

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

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

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

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

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

$$28 \div 4 = \square$$

Division Strategies:

REPEATED SUBTRACTION

$$20 \div 4 = ?$$

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

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

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

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

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

$$20 \div 4 = \square$$

Division Strategies:

REPEATED SUBTRACTION

$$32 \div 4 = ?$$

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

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

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

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

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

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

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

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

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

Division Strategies:

REPEATED SUBTRACTION

$$40 \div 4 = ?$$

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

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

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

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

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

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

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

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

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

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

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

Modeling Division

SKIP COUNTING

DRAW ON A NUMBER LINE



4 8 12 16 20 24 28 32 36 40



4 12 24 28 32 40

FILL IN THE MISSING NUMBERS

4		12		20		28			40
---	--	----	--	----	--	----	--	--	----

		12		20		28			40
--	--	----	--	----	--	----	--	--	----

Modeling Division

SKIP COUNTING

FILL IN THE MISSING NUMBERS

	8			20			32	36	
--	---	--	--	----	--	--	----	----	--

FILL IN THE MISSING NUMBERS

4			16		24	28			40
---	--	--	----	--	----	----	--	--	----

FILL IN THE MISSING NUMBERS

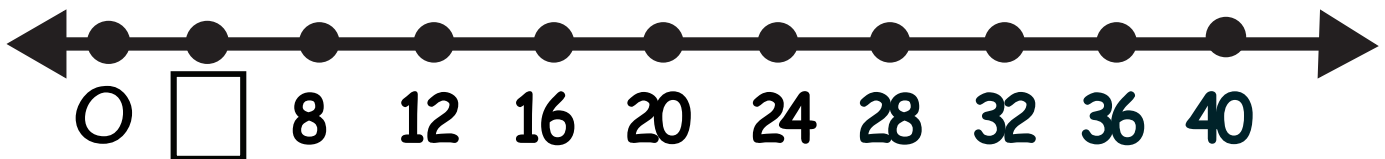
		12	16				32	36	40
--	--	----	----	--	--	--	----	----	----

FILL IN THE MISSING NUMBERS

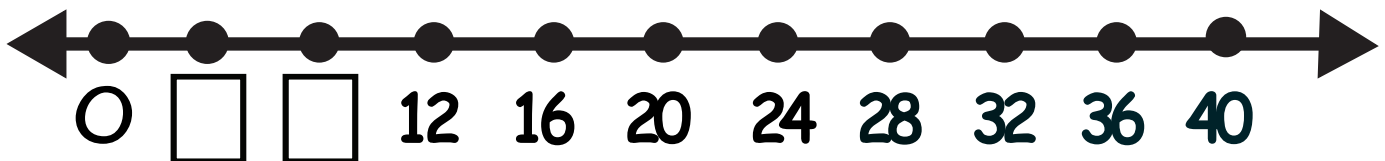
	8			20	24	28			40
--	---	--	--	----	----	----	--	--	----

Division Strategies: **SKIP COUNTING**

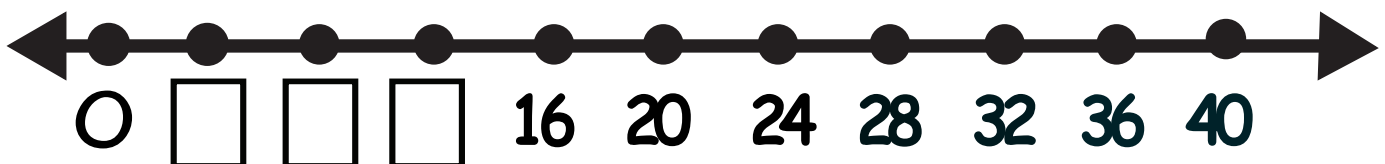
MODEL $4 \div 4$ ON THE NUMBER LINE.



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

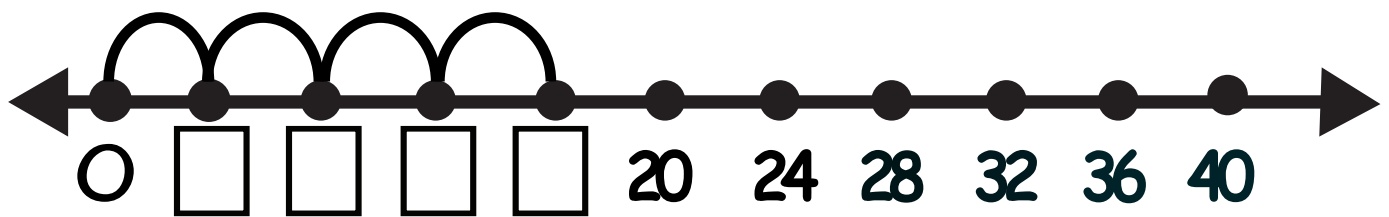


MODEL $12 \div 4$ ON THE NUMBER LINE.

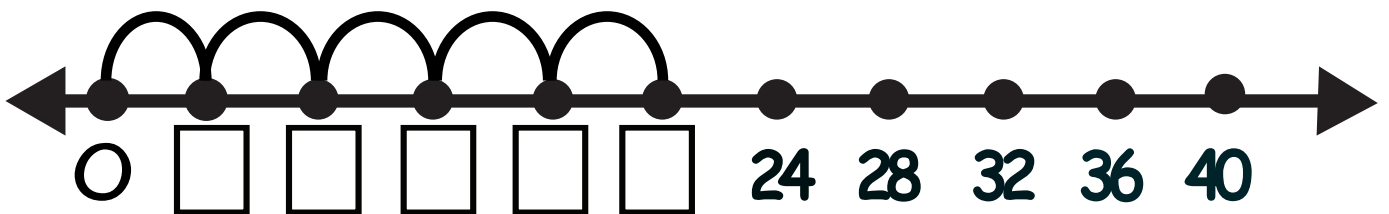


Division Strategies: **SKIP COUNTING**

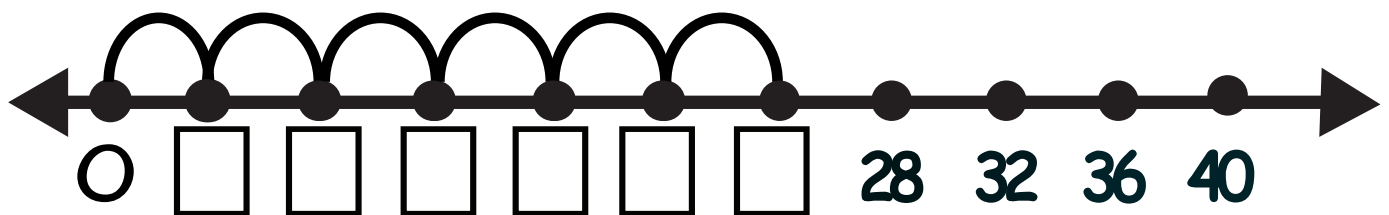
MODEL $16 \div 4$ ON THE NUMBER LINE.



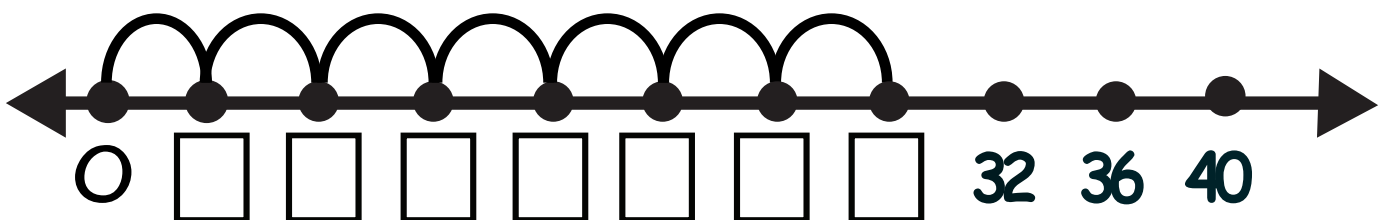
MODEL $20 \div 4$ ON THE NUMBER LINE.



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

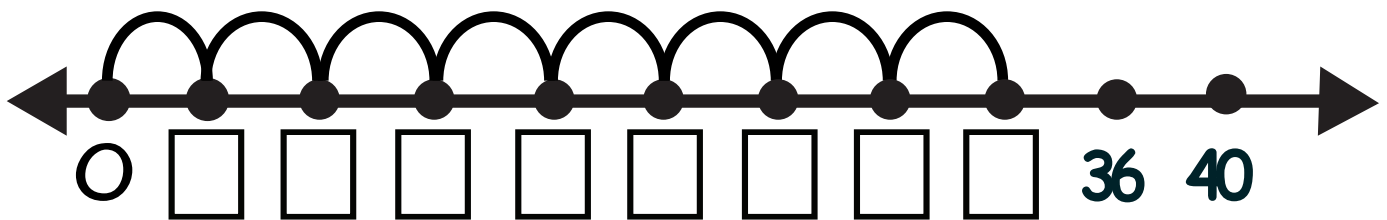


MODEL $28 \div 4$ ON THE NUMBER LINE.

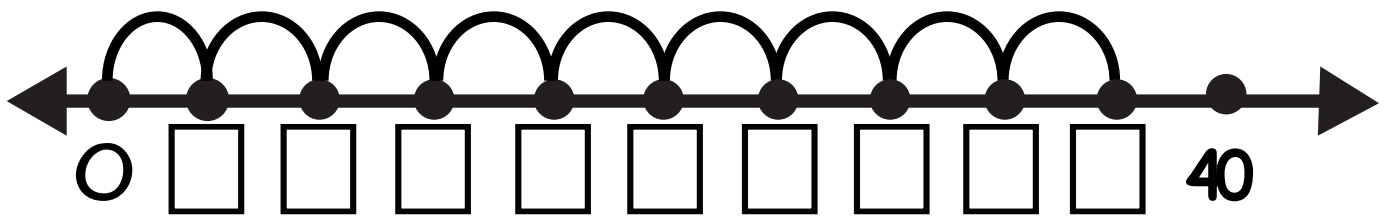


Division Strategies: **SKIP COUNTING**

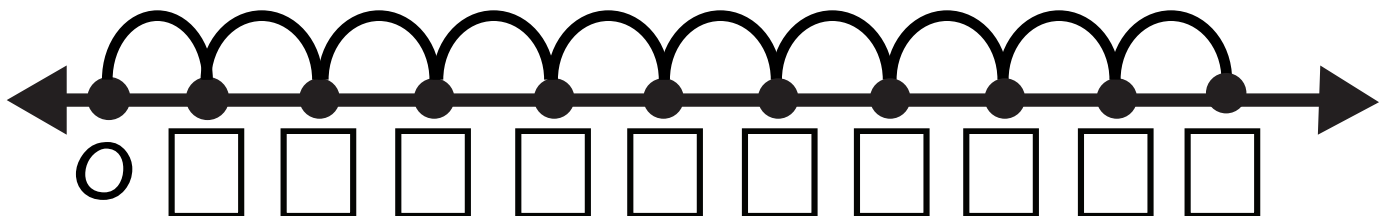
MODEL $32 \div 4$ ON THE NUMBER LINE.



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



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

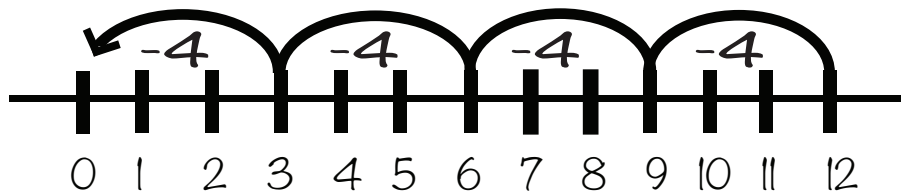


Division Strategies:

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

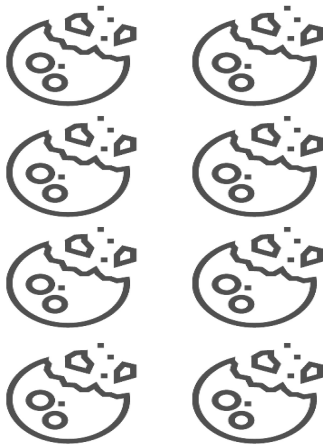
divisor

Array Flashcards

USE THE MODEL TO SOLVE



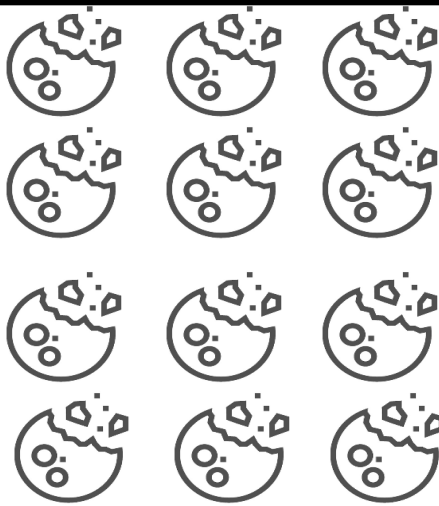
$$4 \div 4 = \underline{\quad}$$



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

Array Flashcards

USE THE MODEL TO SOLVE



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



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

Array Flashcards

USE THE MODEL TO SOLVE



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



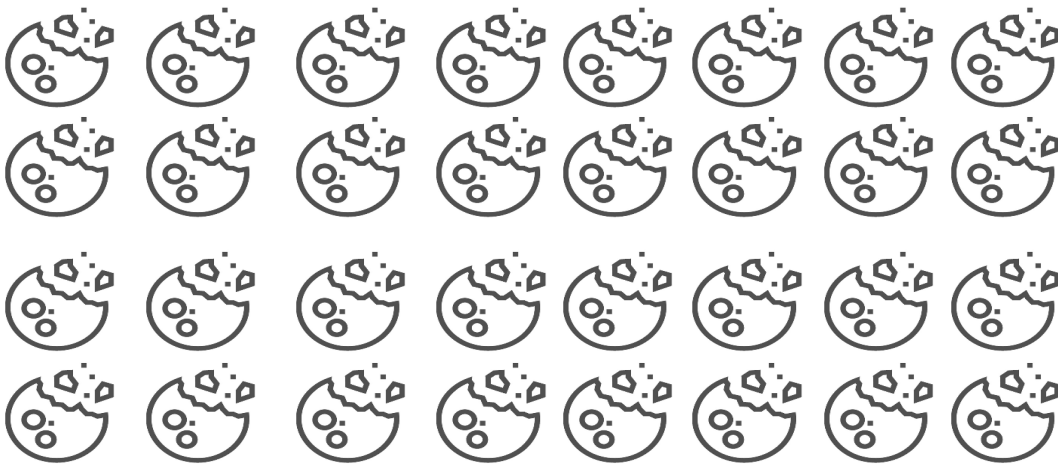
$$24 \div 4 = \underline{\quad}$$

Array Flashcards

USE THE MODEL TO SOLVE



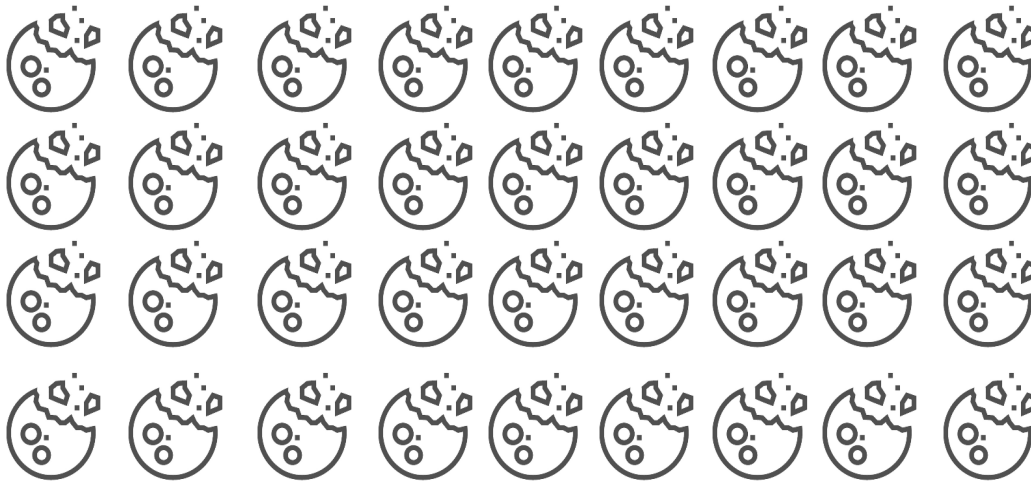
$$28 \div 4 = \underline{\quad}$$



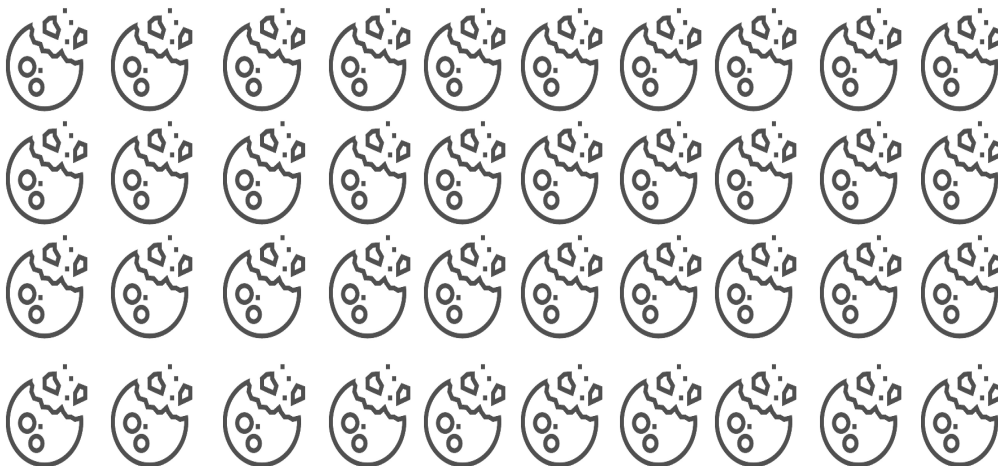
$$32 \div 4 = \underline{\quad}$$

Array Flashcards

USE THE MODEL TO SOLVE



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



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

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.

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

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

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

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

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

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

Equal Group Flashcards

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

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



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



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



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



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		

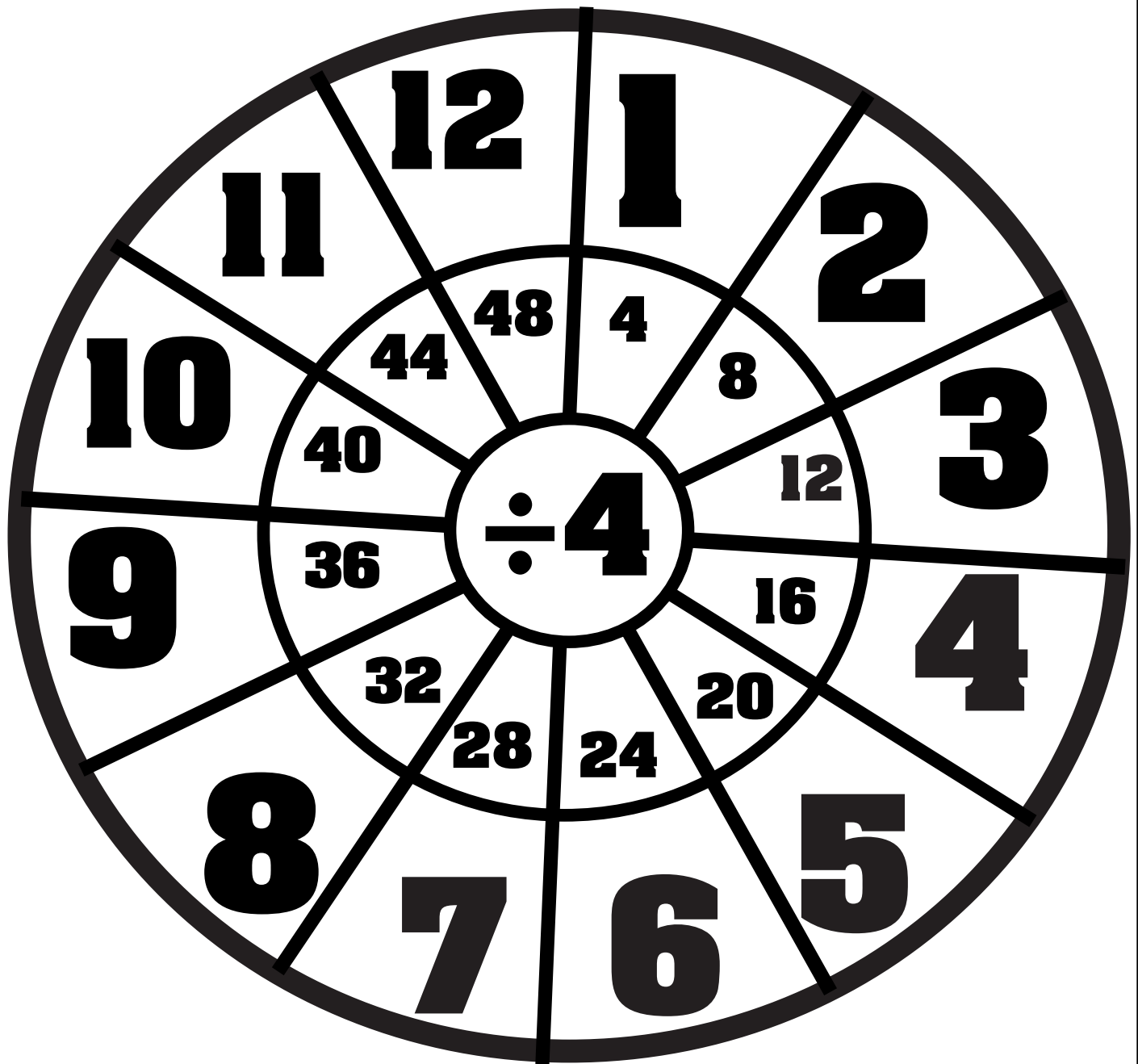
Dividing by 4 4 IN A ROW

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

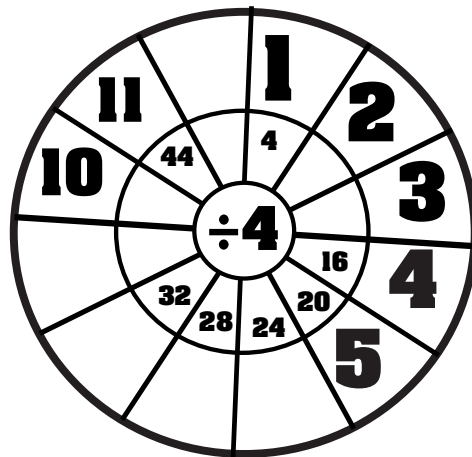
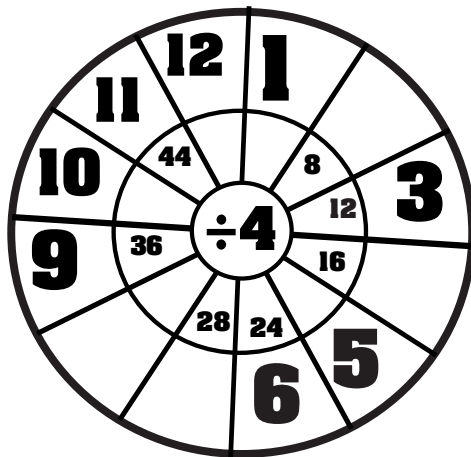
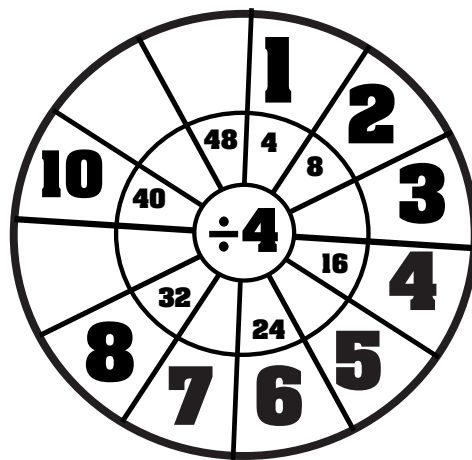
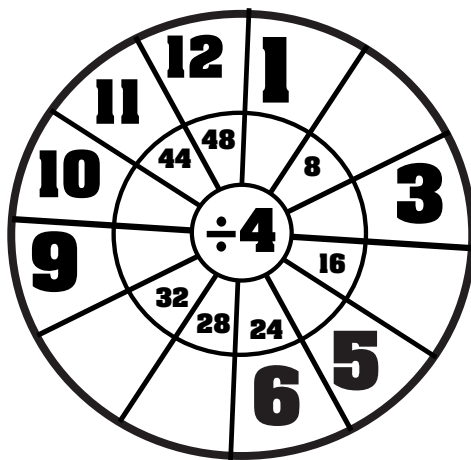
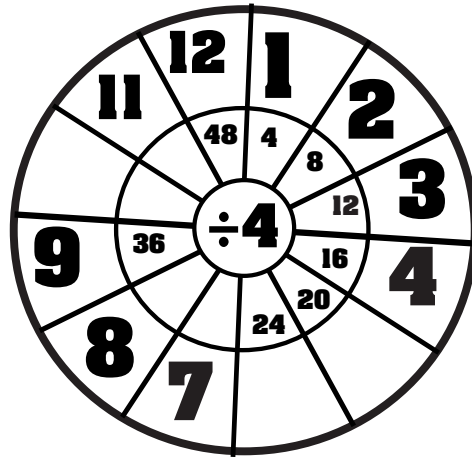
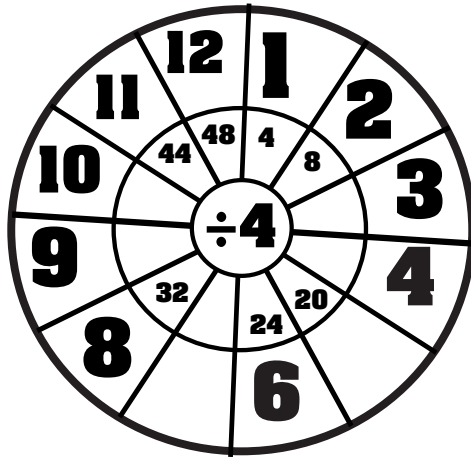
Instructions:

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



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$

PICTURE FACT FAMILY



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \times & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & \div & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \end{array}$$

PICTURE FACT FAMILY

								
								
								
								
$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								

MAKE YOUR OWN

$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								
$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$								

TRIANGLE FACT FAMILY

40

$\times \div$

4 10

$\times$ =

$\times$ =

$\div$ =

$\div$ =

4

$\times \div$

4 1

$\times$ =

$\times$ =

$\div$ =

$\div$ =

8

$\times \div$

4 2

$\times$ =

$\times$ =

$\div$ =

$\div$ =

12

$\times \div$

4 3

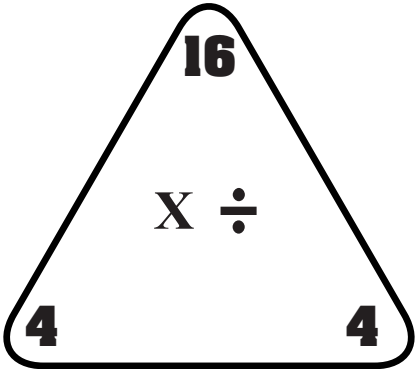
$\times$ =

$\times$ =

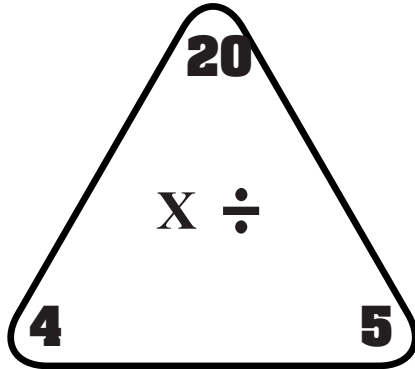
$\div$ =

$\div$ =

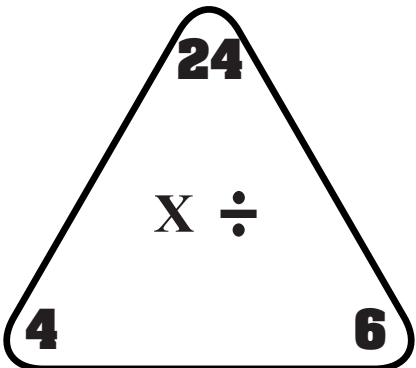
TRIANGLE FACT FAMILY



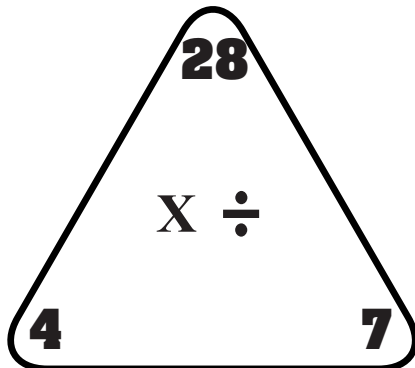
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



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

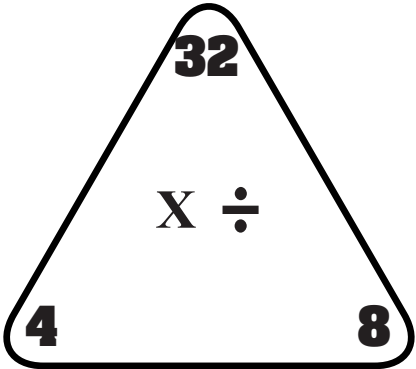


$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
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 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



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

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 is the text "X ÷".

4 **8**

32

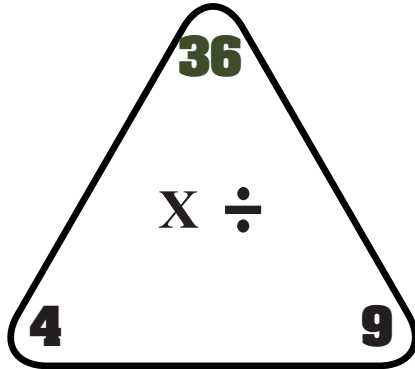
X ÷

_____ x _____ = _____

_____ x _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____



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 is the text "X ÷".

4 **9**

36

X ÷

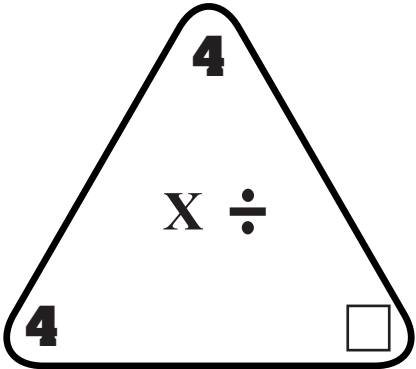
_____ x _____ = _____

_____ x _____ = _____

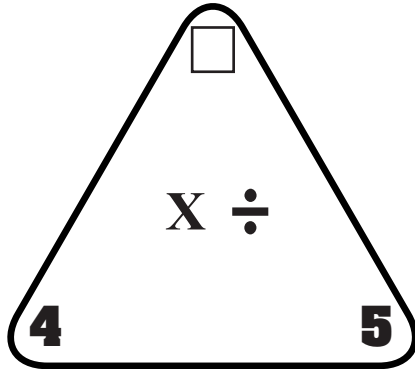
_____ ÷ _____ = _____

_____ ÷ _____ = _____

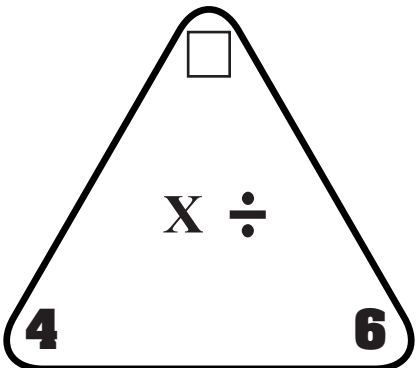
TRIANGLE FACT FAMILY



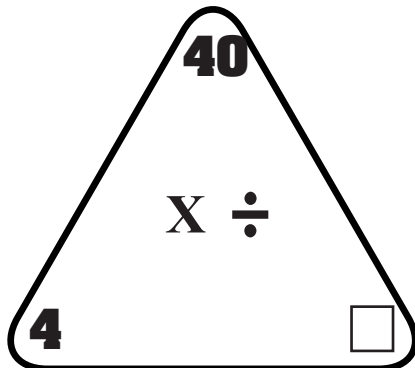
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



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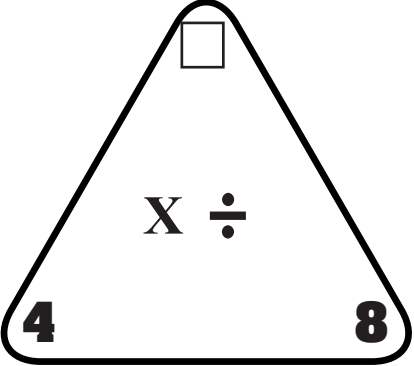


$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



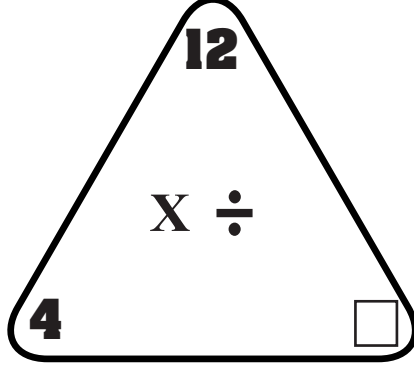
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

TRIANGLE FACT FAMILY



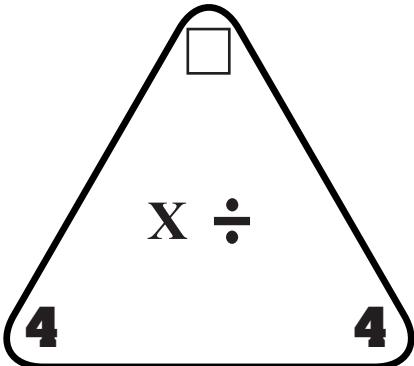
A triangle with a right angle symbol at the top vertex. The bottom-left vertex is labeled 4 and the bottom-right vertex is labeled 8. In the center of the triangle are the symbols $\times$ and $\div$.

Below the triangle are four rows of blank lines for equations, each with a multiplication symbol ($\times$) or a division symbol ($\div$) in the middle and an equals sign (=) to the right.



A triangle with a right angle symbol at the bottom-right vertex. The top vertex is labeled 12 and the bottom-left vertex is labeled 4. In the center of the triangle are the symbols $\times$ and $\div$.

Below the triangle are four rows of blank lines for equations, each with a multiplication symbol ($\times$) or a division symbol ($\div$) in the middle and an equals sign (=) to the right.



A triangle with a right angle symbol at the top vertex. The bottom-left vertex is labeled 4 and the bottom-right vertex is labeled 4. In the center of the triangle are the symbols $\times$ and $\div$.

Below the triangle are four rows of blank lines for equations, each with a multiplication symbol ($\times$) or a division symbol ($\div$) in the middle and an equals sign (=) to the right.

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?

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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?

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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!
 $3 \times ? = _$