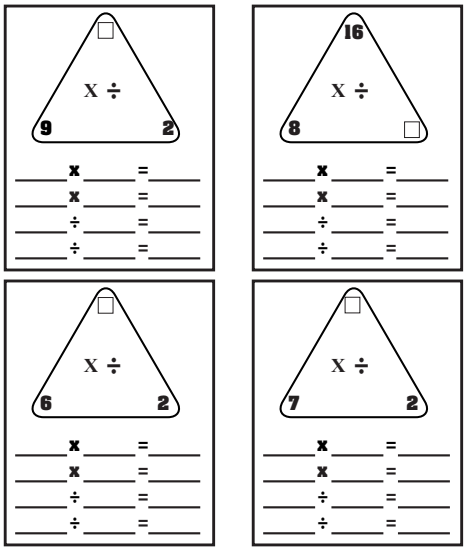
DIVIDING by HALF

WORK BOOKLET ANSWER KEY

TRIANGLE FACT FAMILY



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

Division Vocabulary

dividend | divisor | quotient

12 ÷ 6 = 2

$$6 \overline{)12} \quad 2$$

divisor | dividend | quotient

$$\frac{12}{6} = 2$$

dividend / divisor | quotient

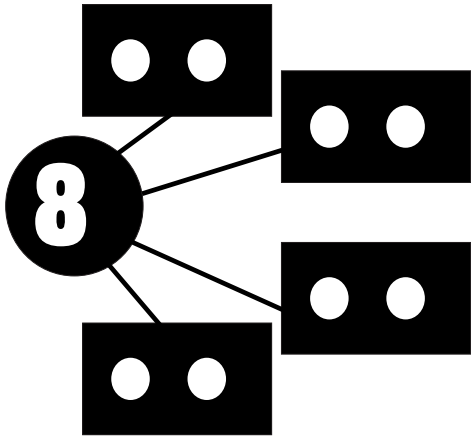
DIVISION

14 ÷ 7 = 2

DIVIDEND DIVISOR QUOTIENT

Division Strategies:

PARTITION

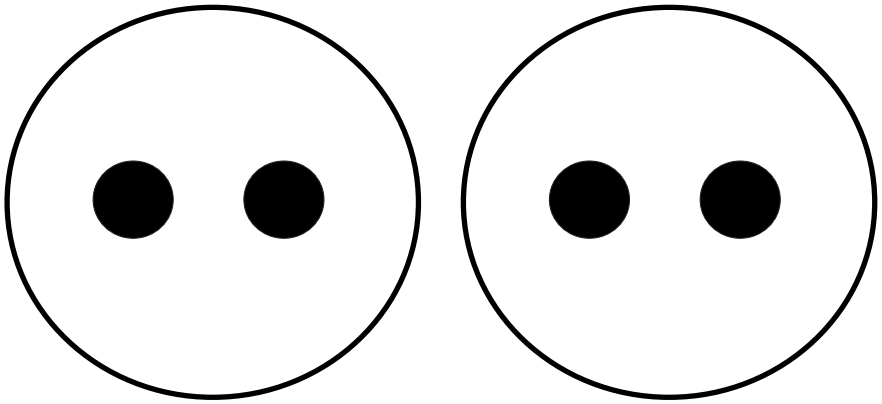


8 ÷ 4 = 2

STRATEGY POSTER

When dividing by HALF,
it's always 2

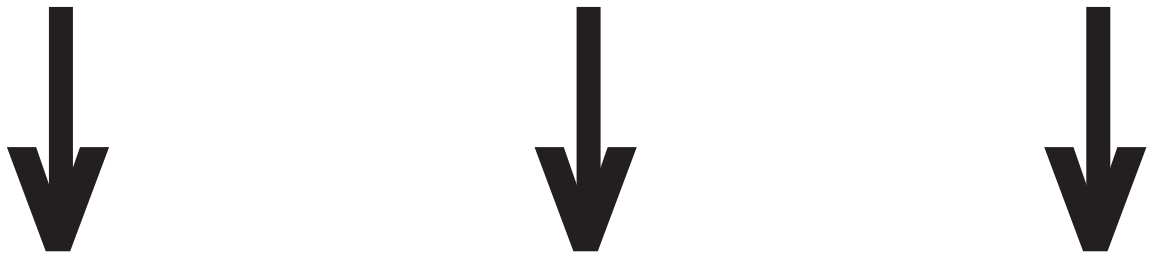
$$4 \div 2 = 2$$



Hint: It's always 2 when you divide a number in half.

DIVISION

$$14 \div 7 = 2$$



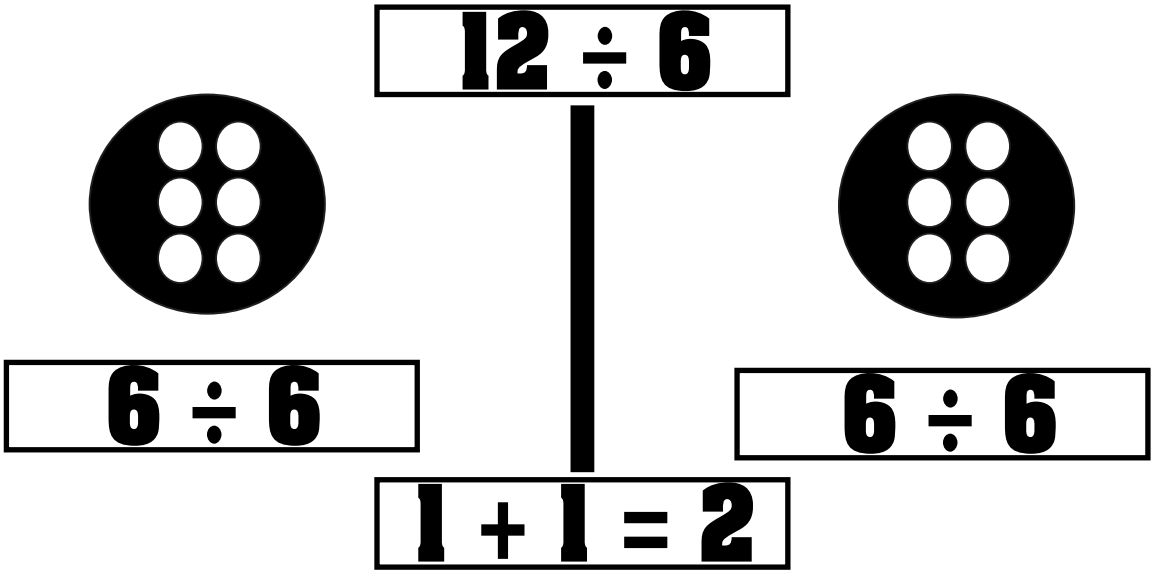
DIVIDEND DIVISOR QUOTIENT

VOCABULARY

DISTRIBUTIVE PR OPERTY

The bakery made 12 muffins. They put 6 in a box. How many boxes did they use?

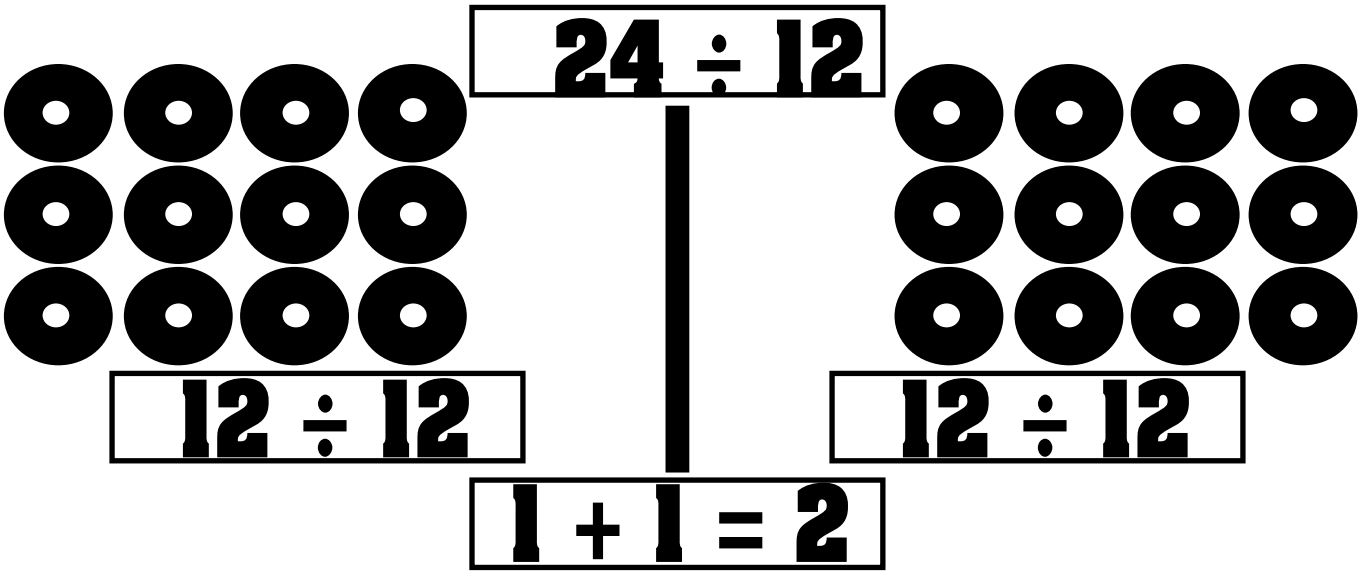
$$12 \div 6 = (6 \div 6) + (6 \div 6) = 1 + 1 = 2$$



MODEL THE FACT

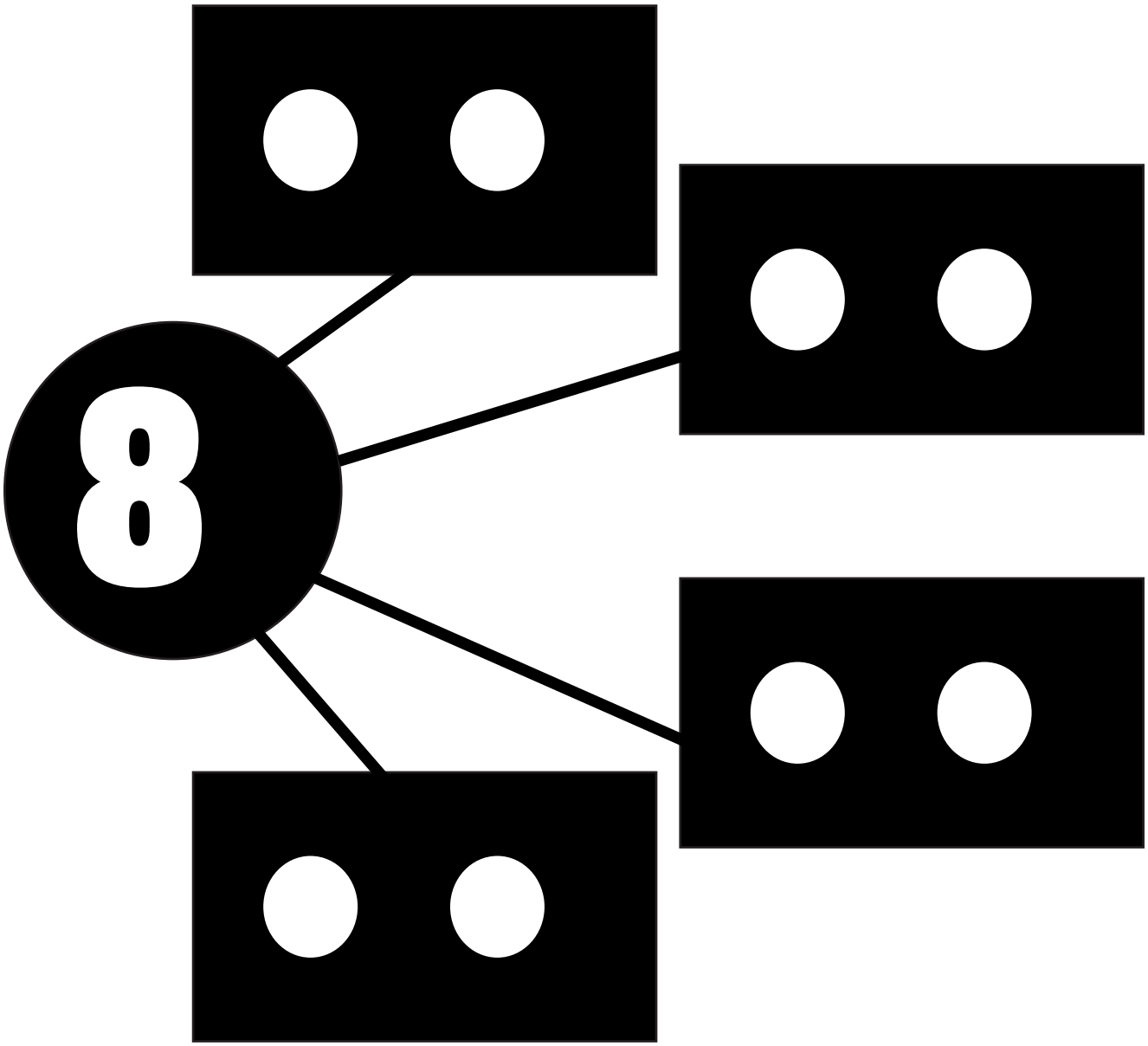
The bakery made 24 muffins. They put 12 in a box. How many boxes did they use?

$$24 \div 12 = (12 \div 12) + (12 \div 12) = 1 + 1 = 2$$



Division Strategies:

PARTITION

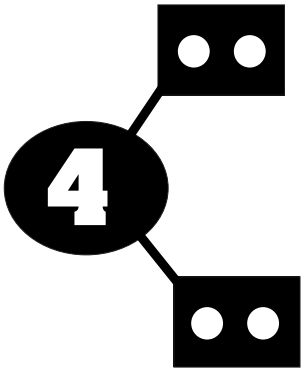


8 ÷ 4 = 2

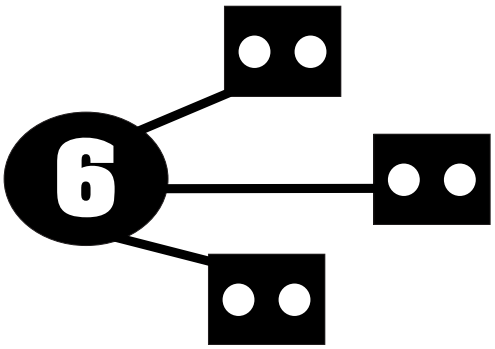
Division Strategies:

PARTITION

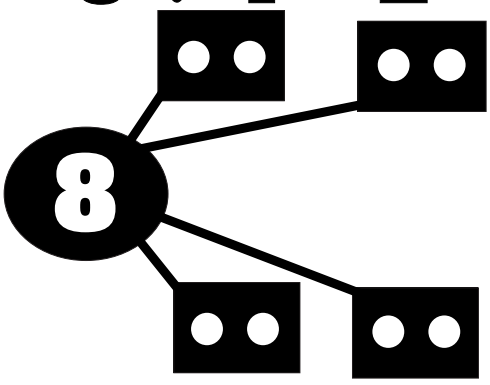
$4 \div 2 = 2$



$6 \div 3 = 2$



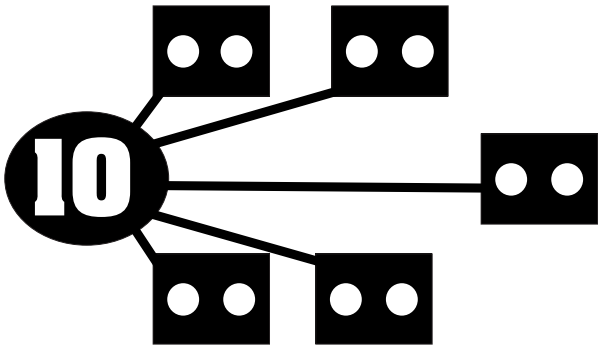
$8 \div 4 = 2$



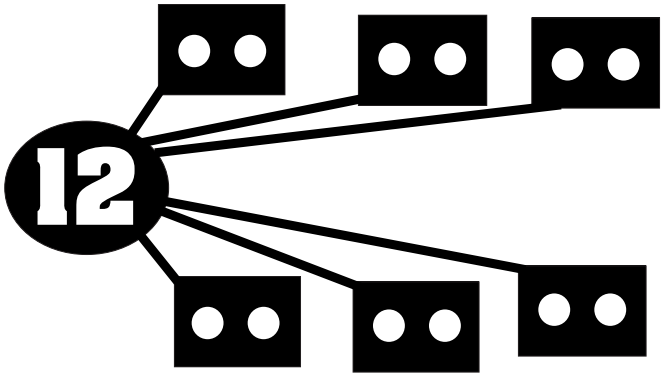
Division Strategies:

PARTITION

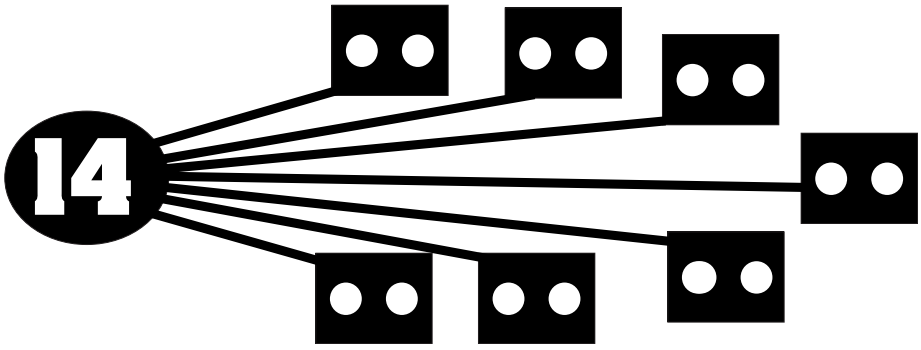
$10 \div 5 = 2$



$12 \div 6 = 2$



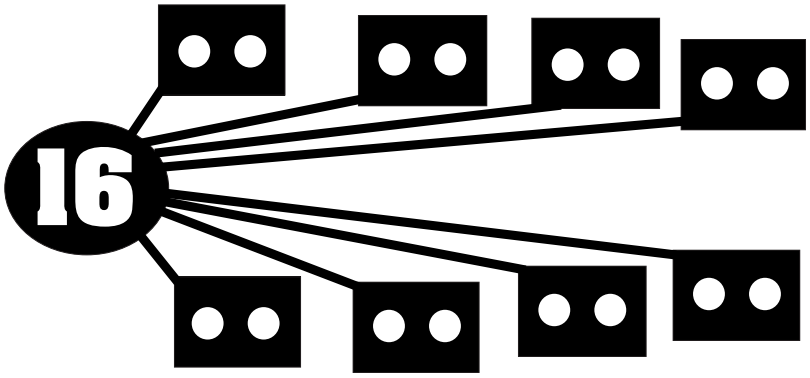
$14 \div 7 = 2$



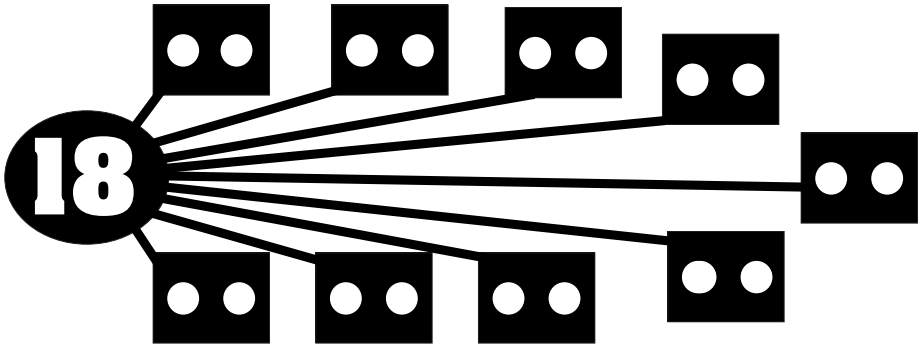
Division Strategies:

PARTITION

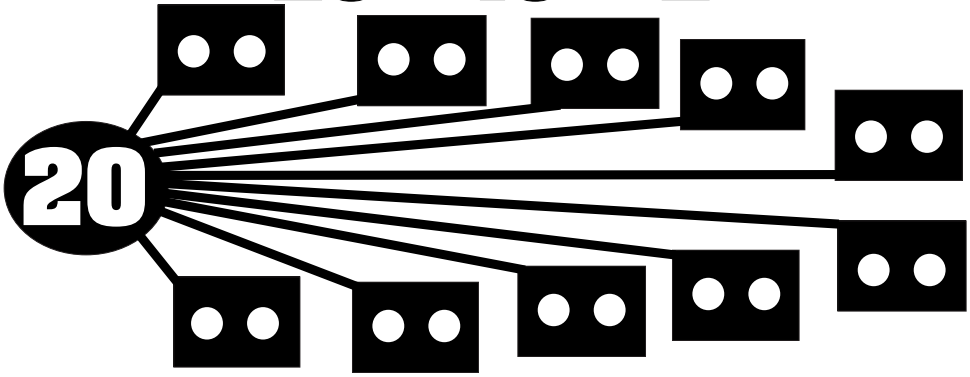
$16 \div 8 = 2$



$18 \div 9 = 2$



$20 \div 10 = 2$



Division Strategies:

PARTITION

FREE CHOICE

FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

18 ÷ 9 = 2

think

9 x 2 = 18

6 ÷ 3 = 2

think

3 x 2 = 6

14 ÷ 7 = 2

think

7 x 2 = 14

10 ÷ 5 = 2

think

5 x 2 = 10

Division Str tegies:

RELATED FACT

4 ÷ 2 = 2

think

2 x 2 = 4

12 ÷ 6 = 2

think

6 x 2 = 12

16 ÷ 8 = 2

think

8 x 2 = 16

8 ÷ 4 = 2

think

4 x 2 = 8

Division Strategies:

RELATED FACT

20 ÷ 10 = 2

think

10 x 2 = 20

__ ÷ __ = __

think

__ x __ = __

__ ÷ __ = __

think

__ x __ = __

__ ÷ __ = __

think

__ x __ = __

Division Strategies:
REPEATED SUBTRACTION

$$16 \div 8 = ?$$

$$16 - 8 = 8$$

$$8 - 8 = 0$$

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

Division Strategies:
REPEATED SUBTRACTION

$$10 \div 5 = ?$$

$$10 - 5 = 5$$

$$5 - 5 = 0$$

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

Division Strategies:
REPEATED SUBTRACTION

$$6 \div 3 = ?$$

$$6 - 3 = 3$$

$$3 - 3 = 0$$

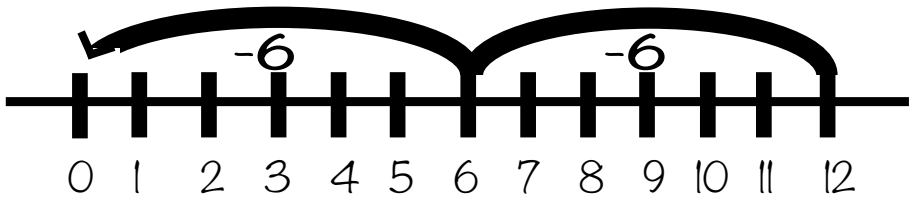
$$6 \div 3 = \boxed{2}$$

Division Strategies:

NUMBER LINES

THERE ARE 12 COOKIES AND YOU PUT 6 IN A BAG. HOW MANY BAGS DO YOU HAVE?

12 ÷ 6 = 2



HOW MANY JUMPS UNTIL YOU GET TO ZERO?

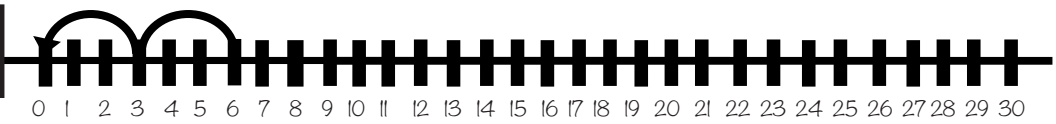
THE FIRST NUMBER IS HOW MANY COOKIES (DIVIDEND). THE SECOND NUMBER IS HOW MANY ARE IN A BAG (DIVISOR). THE QUESTION IS HOW MANY BAGS DO YOU NEED (QUOTIENT)?

SOLVE THE PROBLEM ON THE NUMBER LINE.

HOW MANY JUMPS UNTIL YOU GET TO ZERO?

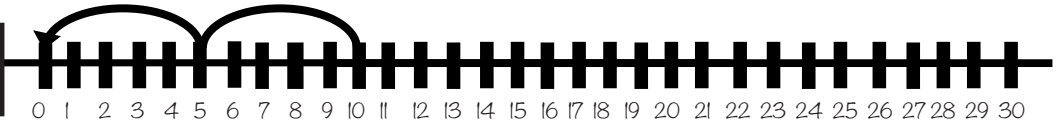
4 ÷ 2

6 ÷ 3



8 ÷ 4

10 ÷ 5



Division Strategies:

NUMBER LINES

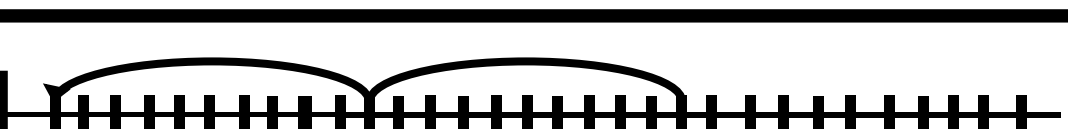
12 ÷ 6

14 ÷ 7

16 ÷ 8

18 ÷ 9

20 ÷ 10



Division Vocabulary

dividend | divisor | quotient

$$12 \div 6 = 2$$

quotient

divisor $6\overline{)12}$ → 2

dividend

$$\frac{12}{6} = 2$$

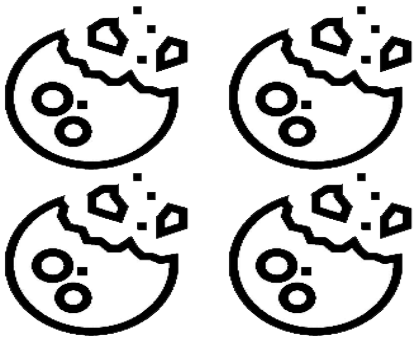
dividend

divisor

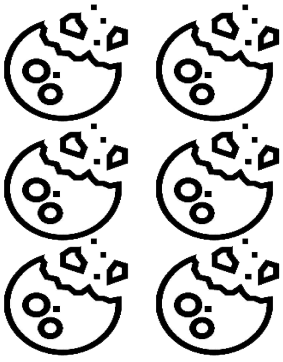
quotient

Array Flashcards

USE THE MODEL TO SOLVE



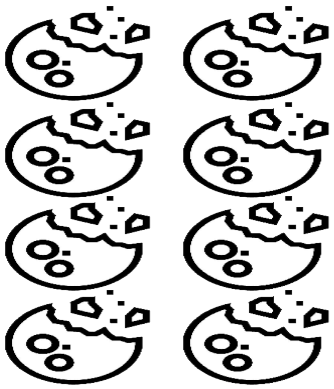
$4 \div 2 = 2$



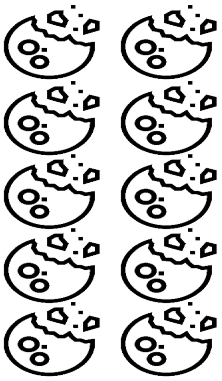
$6 \div 3 = 2$

Array Flashcards

USE THE MODEL TO SOLVE



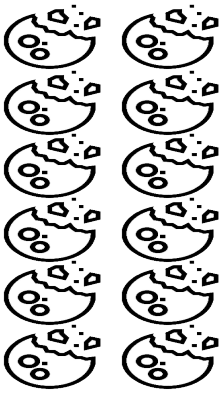
8 ÷ 4 = 2



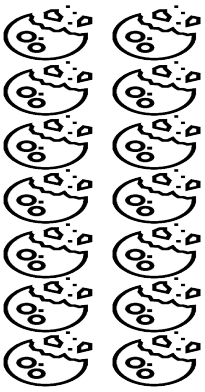
10 ÷ 5 = 2

Array Flashcards

USE THE MODEL TO SOLVE



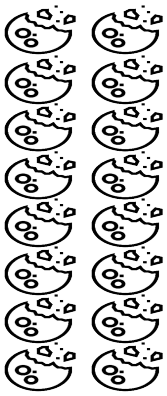
$12 \div 6 = \underline{2}$



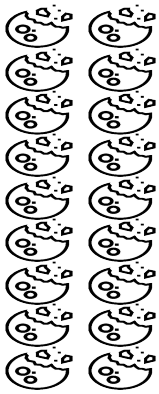
$14 \div 7 = \underline{2}$

Array Flashcards

USE THE MODEL TO SOLVE



$16 \div 8 = \underline{2}$



$18 \div 9 = \underline{2}$

Array Flashcards

USE THE MODEL TO SOLVE

20 ÷ 10= 2

FREE CHOICE

Array Flashcards

WRITE AN EQUATION THAT MATCHES THE ARRAY.

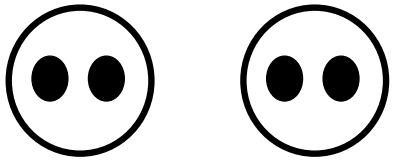
FREE CHOICE

FREE CHOICE

Equal Group Flashcards

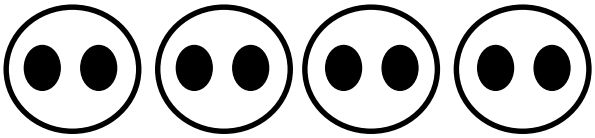
MAKE YOUR OWN EQUAL GROUP FLASHCARDS. DRAW EQUAL GROUPS TO MODEL THE PROBLEM.

4 ÷ 2 = 2

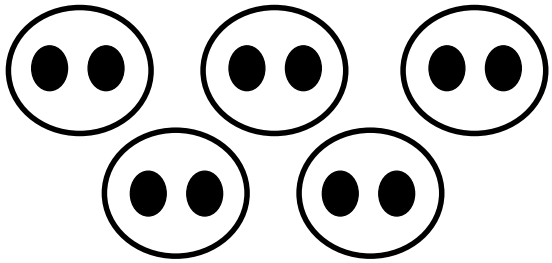


6 ÷ 3 = 2

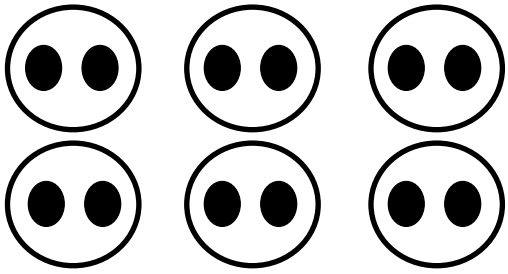
8 ÷ 4 = 2



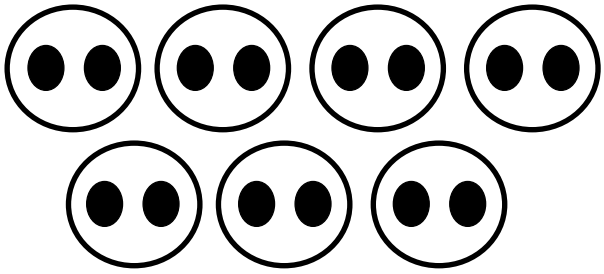
10 ÷ 5 = 2



12 ÷ 6 = 2



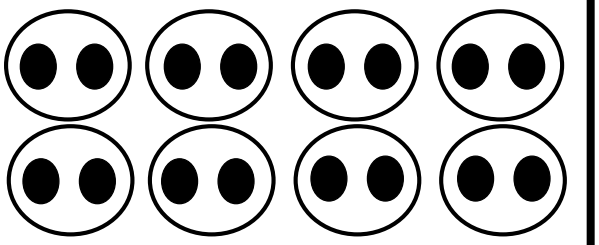
14 ÷ 7 = 2



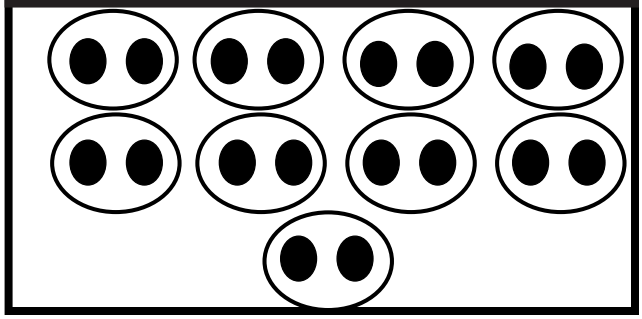
Equal Group Flashcards

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

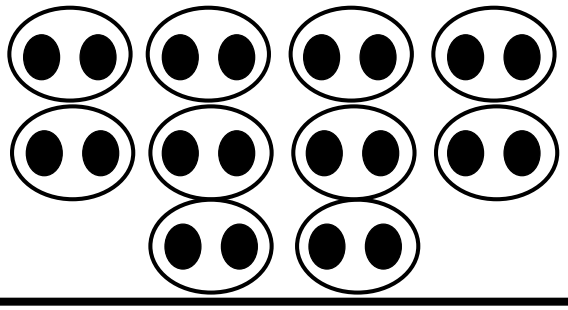
16 ÷ 8 = 2



18 ÷ 9 = 2



20 ÷ 10 = 2



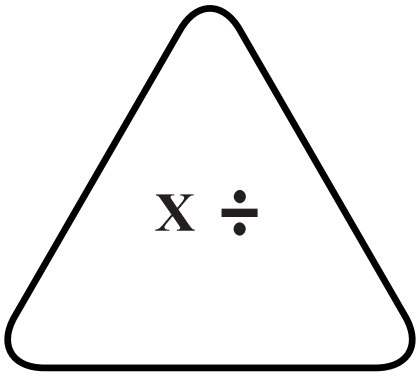
Regular Flashcards

4 ÷ 2	6 ÷ 3
8 ÷ 4	10 ÷ 5
12 ÷ 6	14 ÷ 7

Regular Flashcards

16 ÷ 8	18 ÷ 9
20 ÷ 10	

TRIANGLE FACT FAMILY

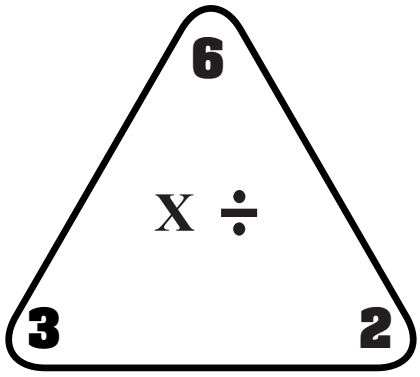


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

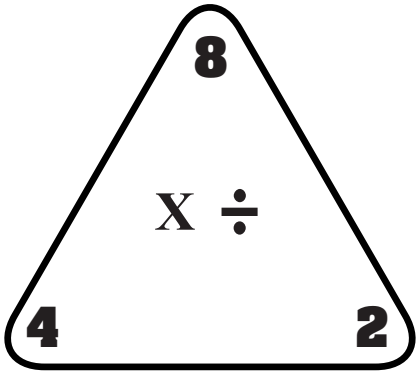


3 x 2 = 6

2 x 3 = 6

6 ÷ 2 = 3

6 ÷ 3 = 2

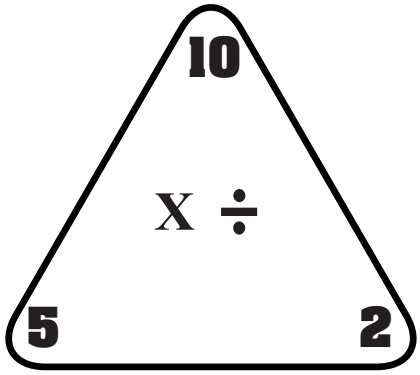


4 x 2 = 8

2 x 4 = 8

8 ÷ 4 = 2

8 ÷ 2 = 4



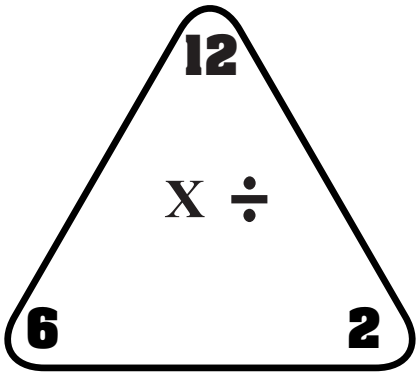
5 x 2 = 10

2 x 5 = 10

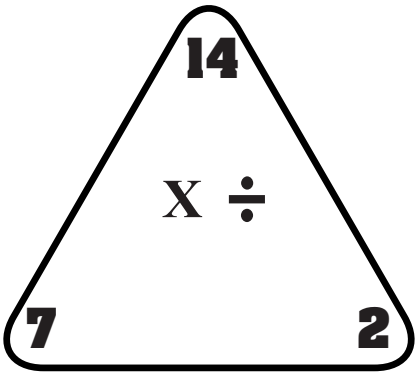
10 ÷ 2 = 5

10 ÷ 5 = 2

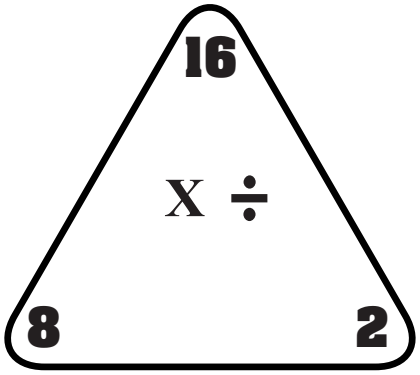
TRIANGLE FACT FAMILY



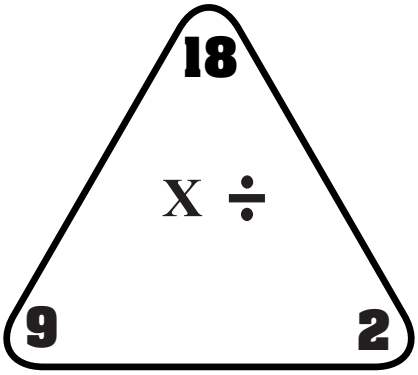
6 x 2 = 12
2 x 6 = 12
12 ÷ 2 = 6
12 ÷ 6 = 2



7 x 2 = 14
2 x 7 = 14
14 ÷ 2 = 7
14 ÷ 7 = 2

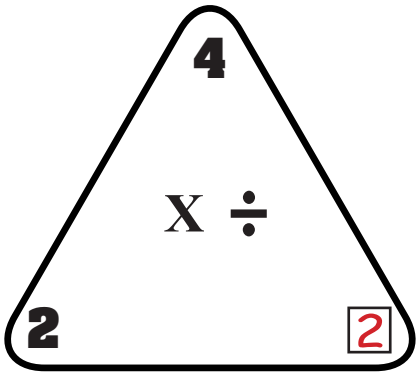


8 x 2 = 16
2 x 8 = 16
16 ÷ 2 = 8
16 ÷ 8 = 2

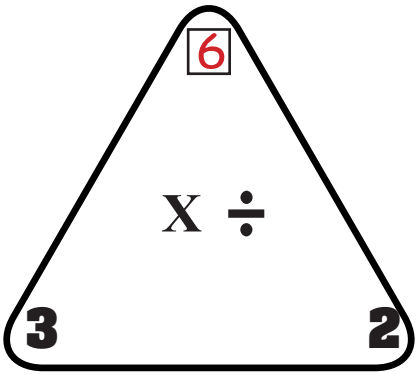


9 x 2 = 18
2 x 9 = 18
18 ÷ 2 = 9
18 ÷ 9 = 2

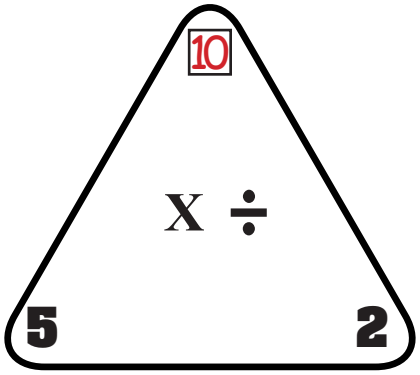
TRIANGLE FACT FAMILY



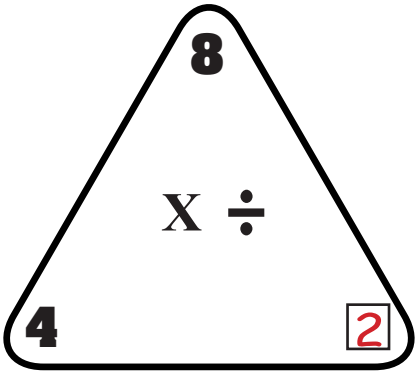
2 x 2 = 4
2 x 2 = 4
4 ÷ 2 = 2
4 ÷ 2 = 2



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

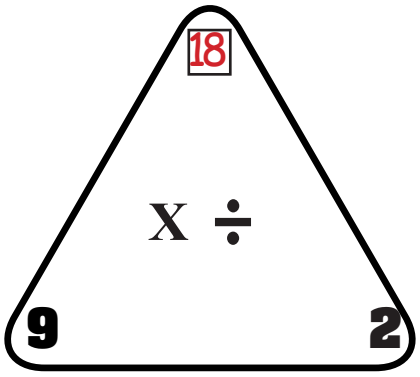


5 x 2 = 10
2 x 5 = 10
10 ÷ 2 = 5
10 ÷ 5 = 2

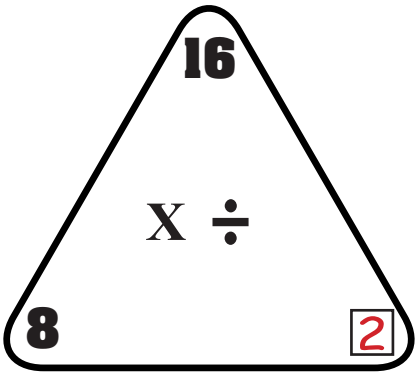


4 x 2 = 8
2 x 4 = 8
8 ÷ 4 = 2
8 ÷ 2 = 4

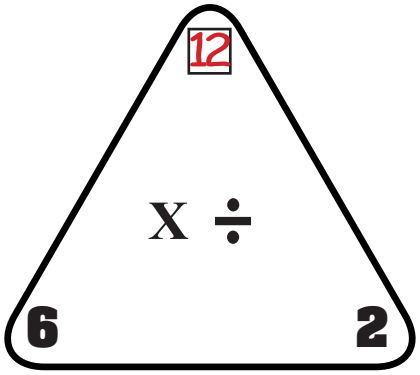
TRIANGLE FACT FAMILY



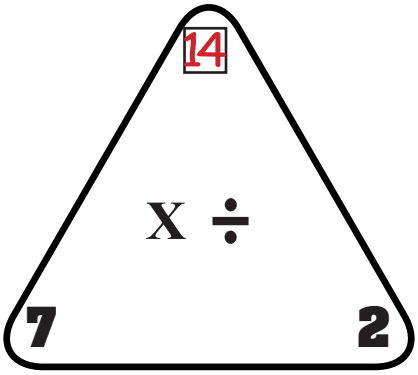
9 x 2 = 18
2 x 9 = 18
18 ÷ 2 = 9
18 ÷ 9 = 2



8 x 2 = 16
2 x 8 = 16
16 ÷ 2 = 8
16 ÷ 8 = 2



6 x 2 = 12
2 x 6 = 12
12 ÷ 2 = 6
12 ÷ 6 = 2



7 x 2 = 14
2 x 7 = 14
14 ÷ 2 = 7
14 ÷ 7 = 2

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM.

THE BAKERY HAD 6 DONUTS. THEY PUT 3 IN EACH BAG. HOW MANY BAGS DID THEY USE?

6 ÷ 3 = 2

THE BAKERY HAD 8 DONUTS. THEY PUT 4 IN EACH BAG. HOW MANY BAGS DID THEY USE?

8 ÷ 4 = 2

THE BAKERY MADE 10 MUFFINS. THEY PACKED 5 IN A BOX. HOW MANY BOXES DID THEY USE?

10 ÷ 5 = 2

THE BAKERY MADE 18 HAND PIES. THEY PUT 9 IN EACH BOX. HOW MANY BOXES DID THEY USE?

18 ÷ 9 = 2

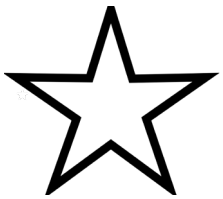
QUIZ

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

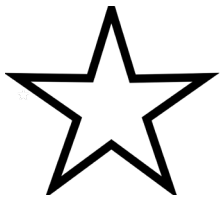
I CAN SKIP COUNT TO DIVIDE BY HALF!	I CAN USE EQUAL GROUPS TO DIVIDE BY HALF!

I CAN USE ARRAYS TO MODEL DIVIDING BY HALF!	I CAN MODEL DIVIDING BY HALF ON THE NUMBER LINE!

I CAN USE REPEATED SUBTRACTION TO DIVIDE BY HALF.	MY STRATEGY FOR THINKING ABOUT DIVIDING BY HALF IS....



GREAT MATH WORK!



CERTIFICATE

_____

HAS SUCCESSFULLY PRACTICED DIVIDING BY HALF!

GREAT JOB!

TEACHER: _____ **DATE:** _____

Looking at the halves

4 ÷ 2 = 2	14 ÷ 7 = 2
6 ÷ 3 = 2	16 ÷ 8 = 2
8 ÷ 4 = 2	18 ÷ 9 = 2
10 ÷ 5 = 2	20 ÷ 10 = 2
12 ÷ 6 = 2	

Bookmarks

DIVIDING BY HALF

4 ÷ 2 = 2
6 ÷ 3 = 2
8 ÷ 4 = 2
10 ÷ 5 = 2
12 ÷ 6 = 2
14 ÷ 7 = 2
16 ÷ 8 = 2
18 ÷ 9 = 2
20 ÷ 10 = 2

DIVIDING BY HALF

Hint : it's always 2 when you divide a number in half.

DIVIDING BY HALF

4 ÷ 2 = 2
6 ÷ 3 = 2
8 ÷ 4 = 2
10 ÷ 5 = 2
12 ÷ 6 = 2
14 ÷ 7 = 2
16 ÷ 8 = 2
18 ÷ 9 = 2
20 ÷ 10 = 2

DIVIDING BY HALF

Hint : it's always 2 when you divide a number in half.

DIVIDING BY HALF

4 ÷ 2 = 2
6 ÷ 3 = 2
8 ÷ 4 = 2
10 ÷ 5 = 2
12 ÷ 6 = 2
14 ÷ 7 = 2
16 ÷ 8 = 2
18 ÷ 9 = 2
20 ÷ 10 = 2

DIVIDING BY HALF

Hint : it's always 2 when you divide a number in half.