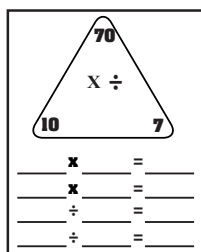
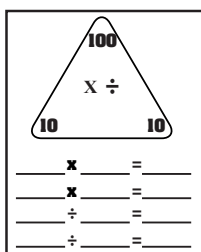
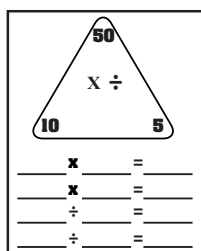
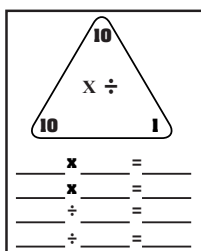


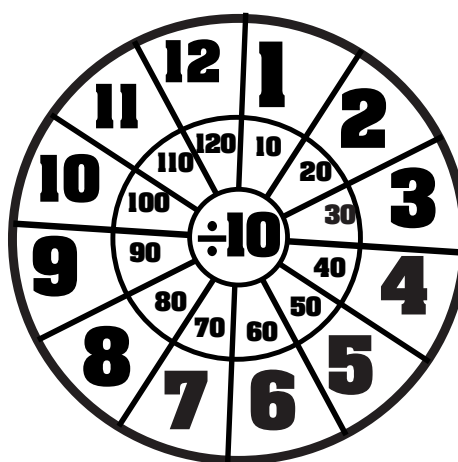
DIVIDING by 10

WORK BOOKLET ANSWER KEY

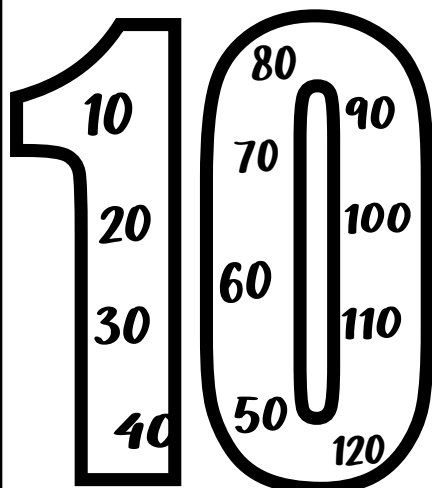
TRIANGLE FACT FAMILY



DIVISION WHEELS

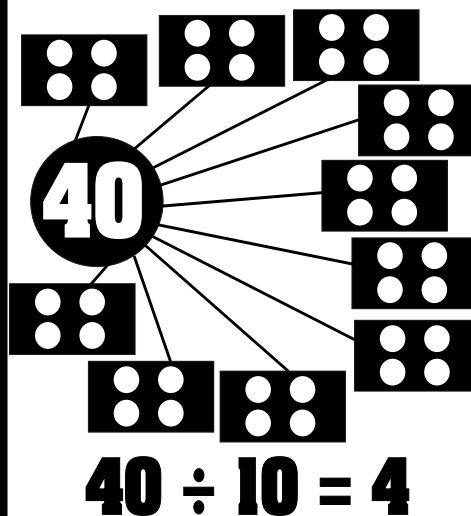


MULTIPLES OF 10



Division strategies:

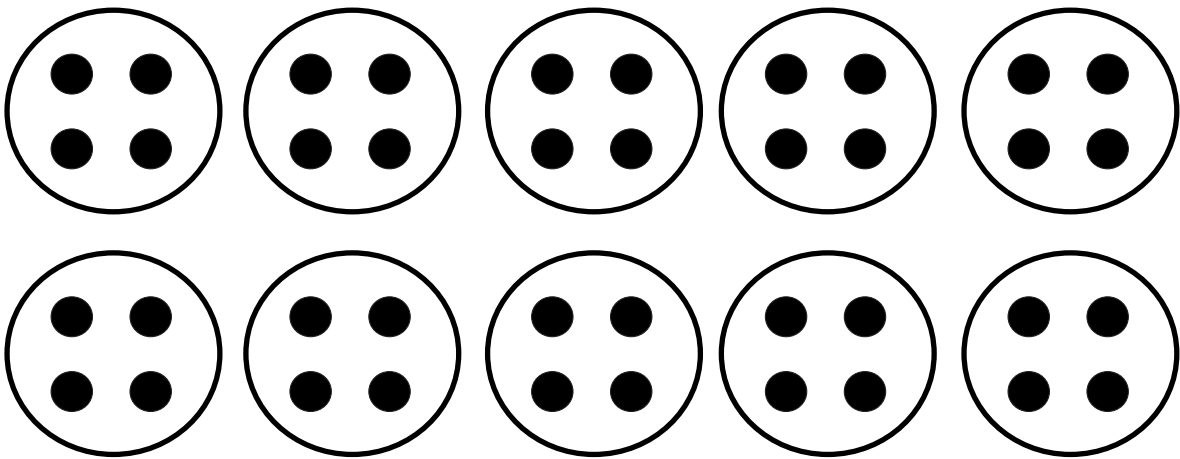
PARTITION



STRATEGY POSTER

When dividing by **10**,
think multiplication! $10 \times ? = 40$

$$40 \div 10 = 4$$



Hint: Think multiplication! $10 \times ? = 40$

DIVISION

$$90 \div 10 = 9$$



DIVIDEND

DIVISOR

QUOTIENT

MULTIPLES OF TEN

10



20



30



40



50



60



70



80



90



100



110



120



MULTIPLES OF TEN

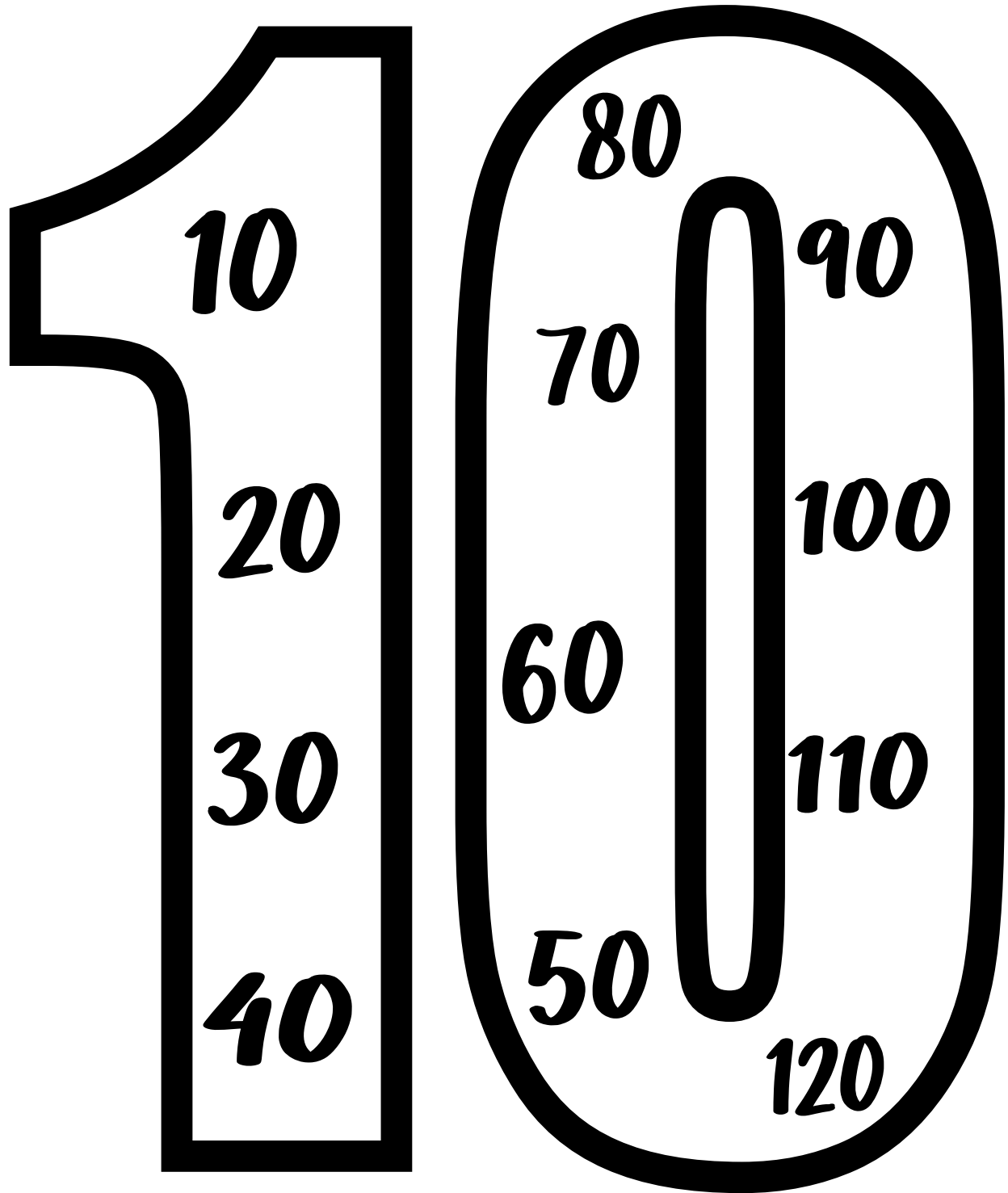
10  20  30 

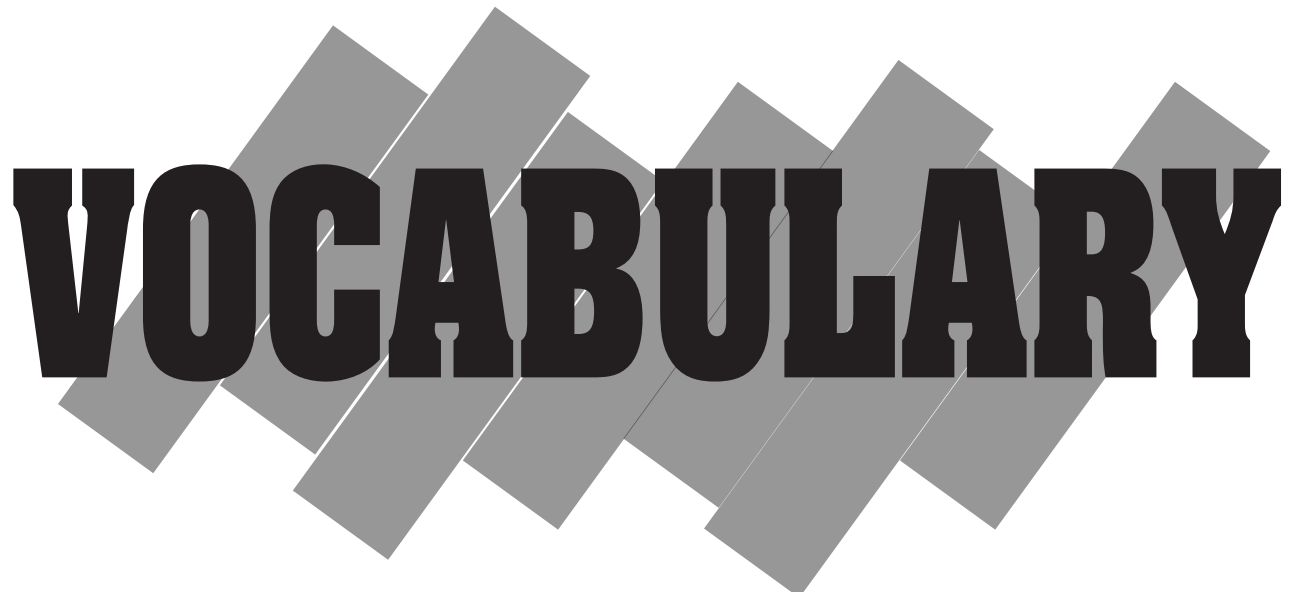
40  50  60 

70  80  90 

100  110  120 

MULTIPLES OF 10



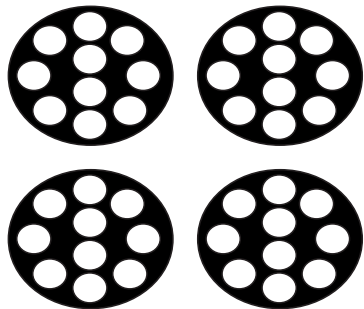


VOCABULARY

DISTRIBUTIVE PROPERTY

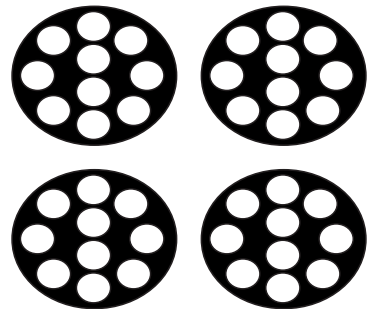
There were 80 marbles. I put 10 in each bag. How many bags did I use?

$$80 \div 10 = (40 \div 10) + (40 \div 10) = 4 + 4 = 8$$



$$40 \div 10$$

$$80 \div 10$$



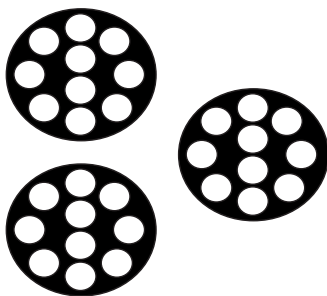
$$40 \div 10$$

$$4 + 4 = 8$$

MODEL THE FACT

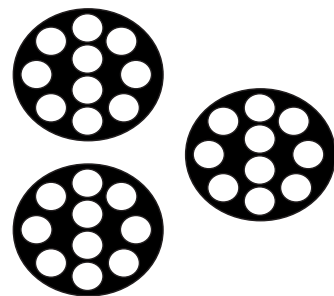
There were 60 marbles. I put 10 in each bag. How many bags did I use?

$$60 \div 10 = (30 \div 10) + (30 \div 10)$$



$$30 \div 10$$

$$60 \div 10$$



$$30 \div 10$$

$$3 + 3 = 6$$

IDENTITY PROPERTY

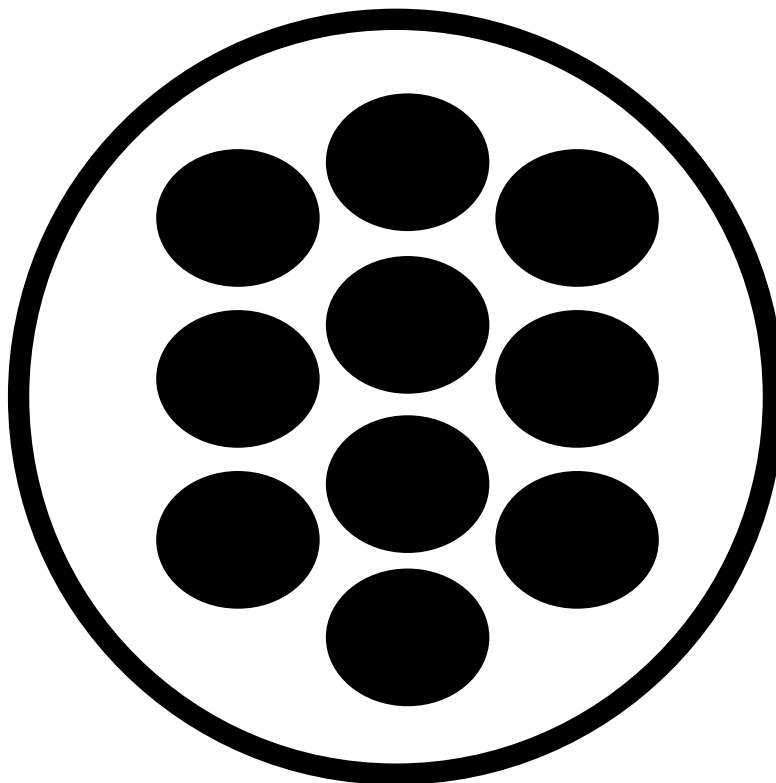
DIVIDING A NUMBER BY 1

$$10 \div 1 = 10$$

$$9 \div 1$$

$$5 \div 1$$

$$7 \div 1$$



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

ZERO PROPERTY

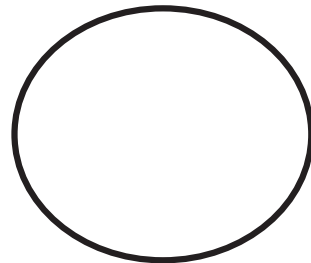
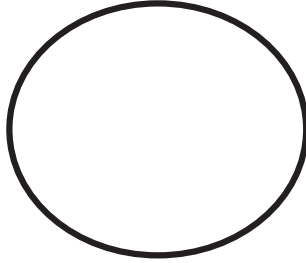
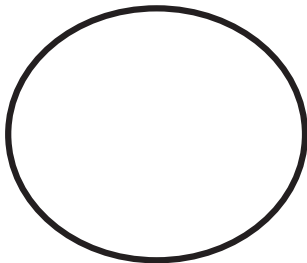
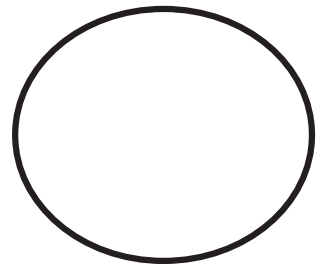
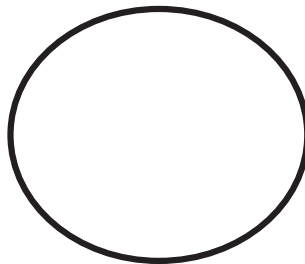
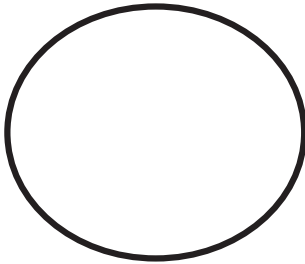
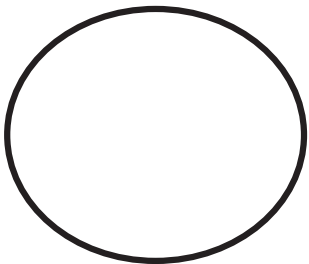
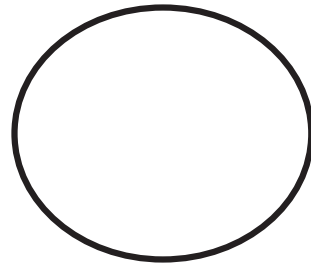
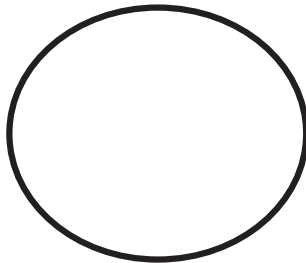
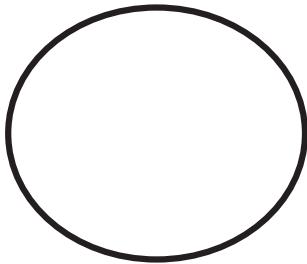
DIVIDING 0 BY A NUMBER

$$0 \div 10 = 0$$

$$0 \div 7$$

$$0 \div 1$$

$$0 \div 2$$



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

DIVISION BY ITSELF PROPERTY

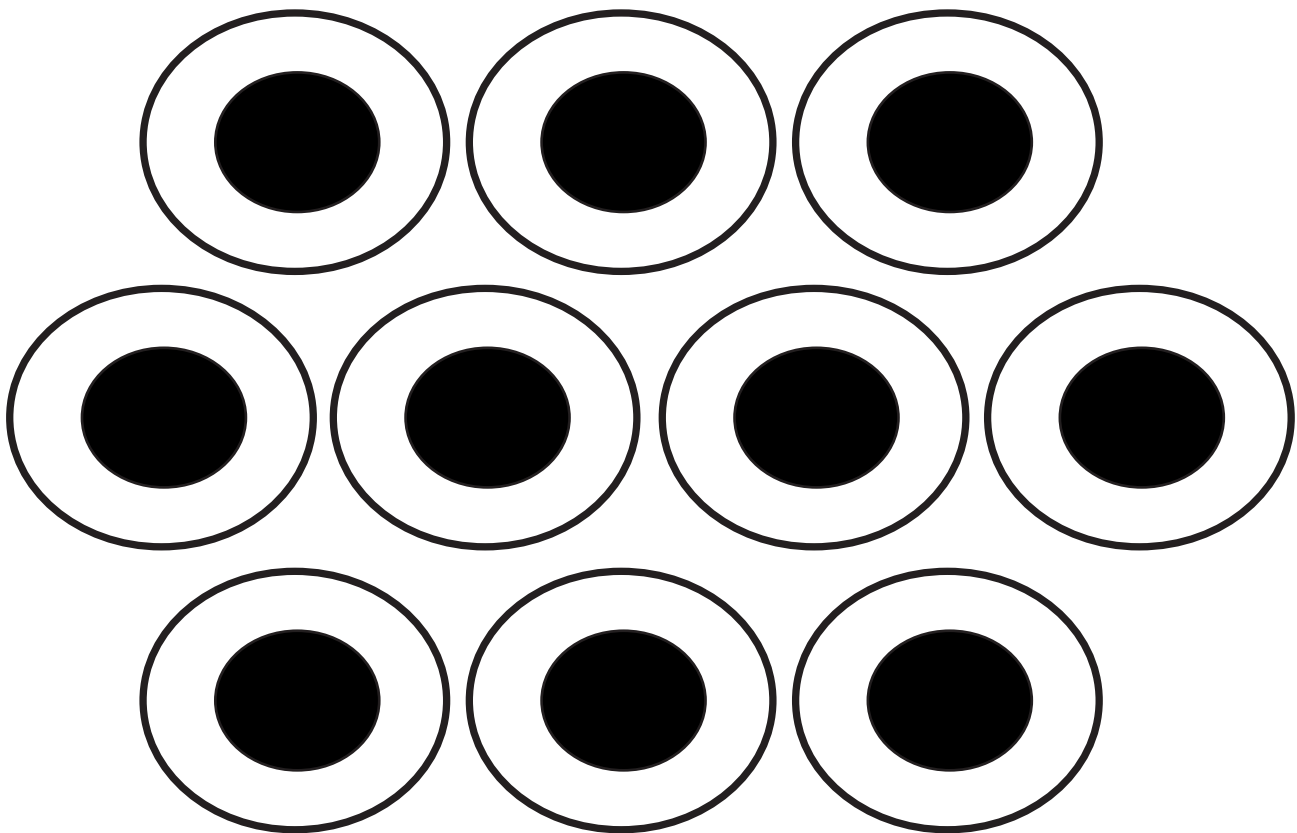
DIVIDING A NUMBER BY ITSELF

$$10 \div 10 = 1$$

$$9 \div 9$$

$$5 \div 5$$

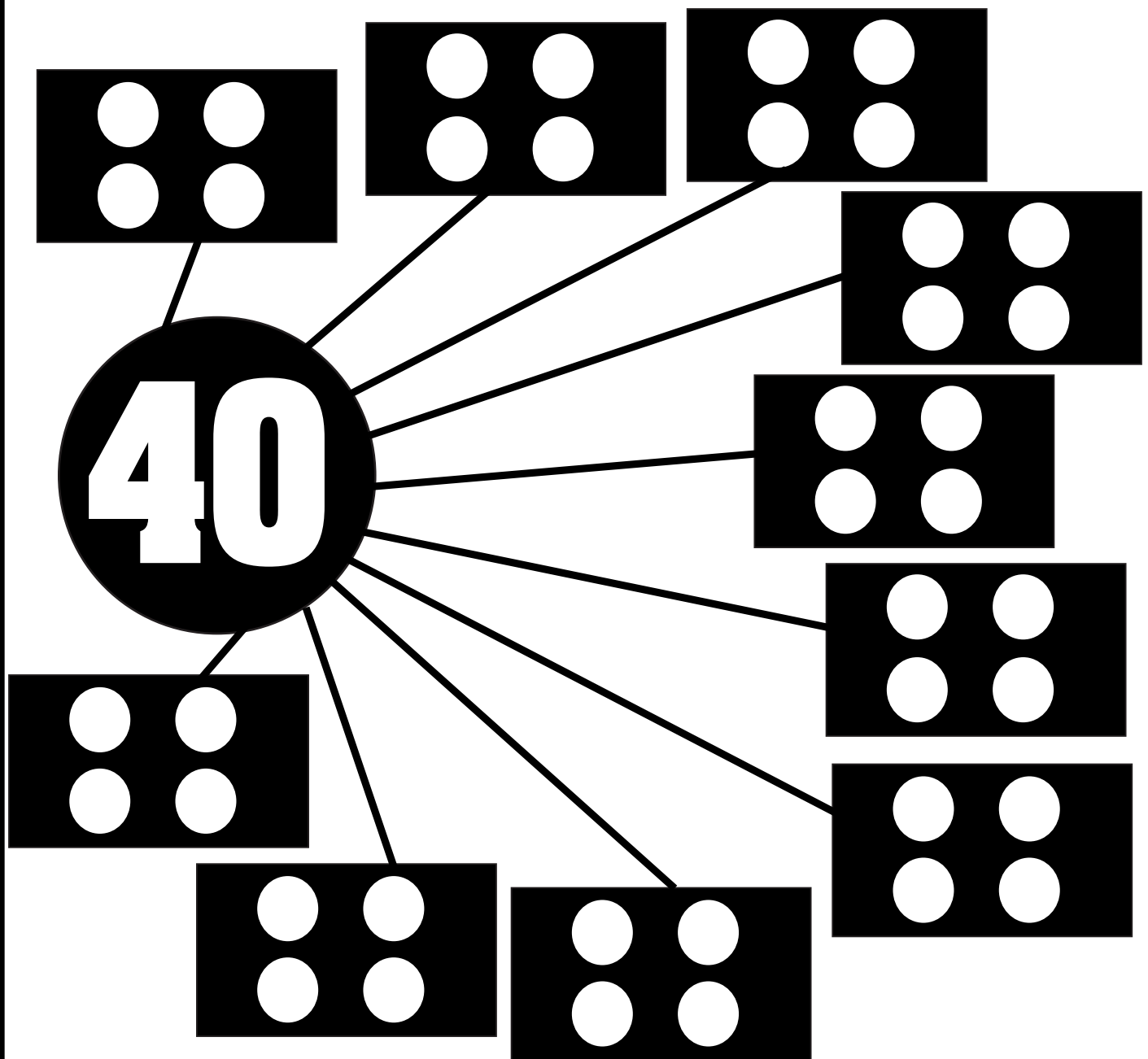
$$2 \div 2$$



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

Division Strategies:

PARTITION

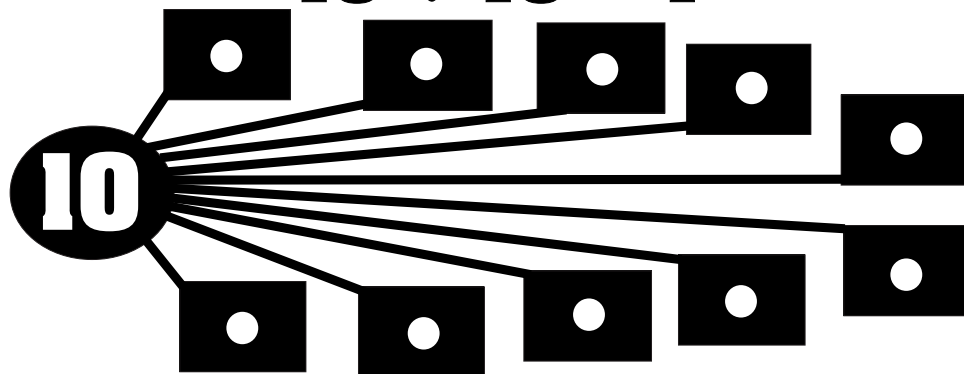


$$40 \div 10 = 4$$

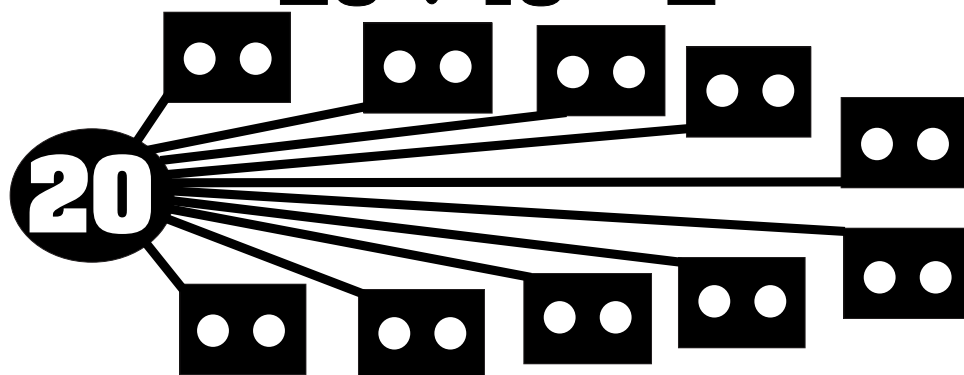
Division Strategies:

PARTITION

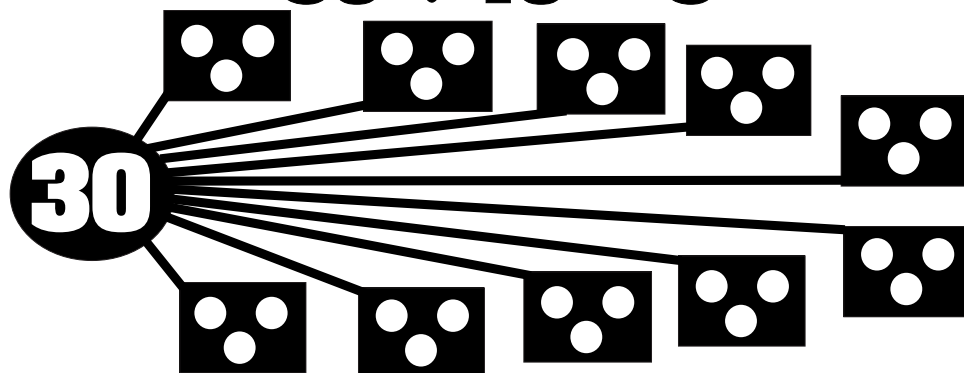
$$10 \div 10 = 1$$



$$20 \div 10 = 2$$



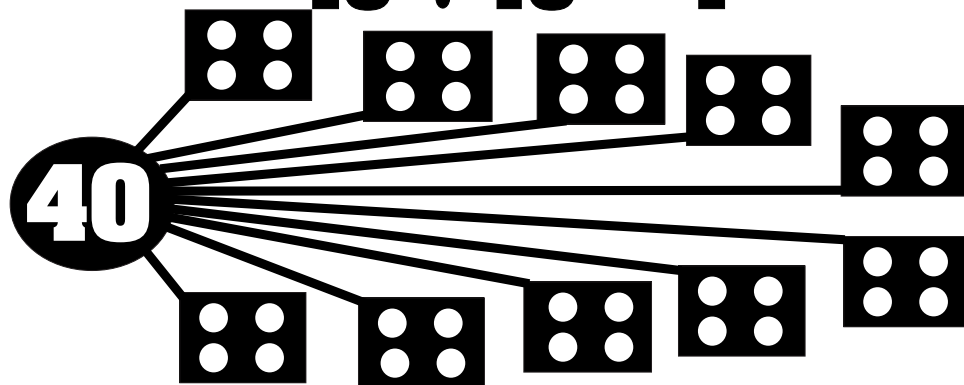
$$30 \div 10 = 3$$



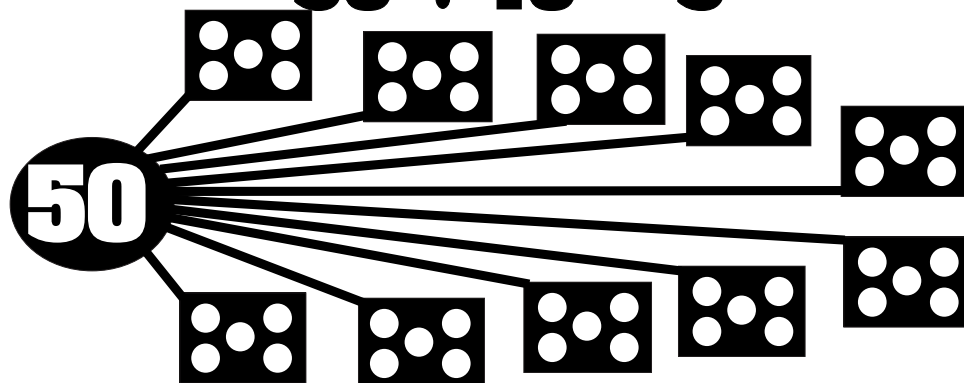
Division Strategies:

PARTITION

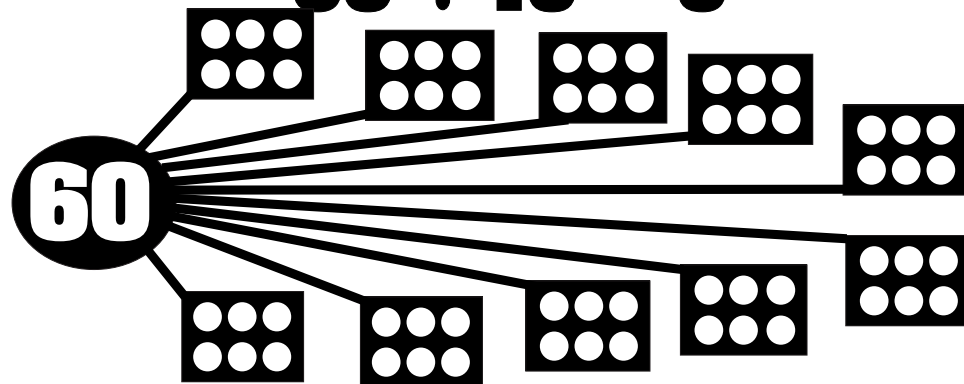
$$40 \div 10 = 4$$



$$50 \div 10 = 5$$



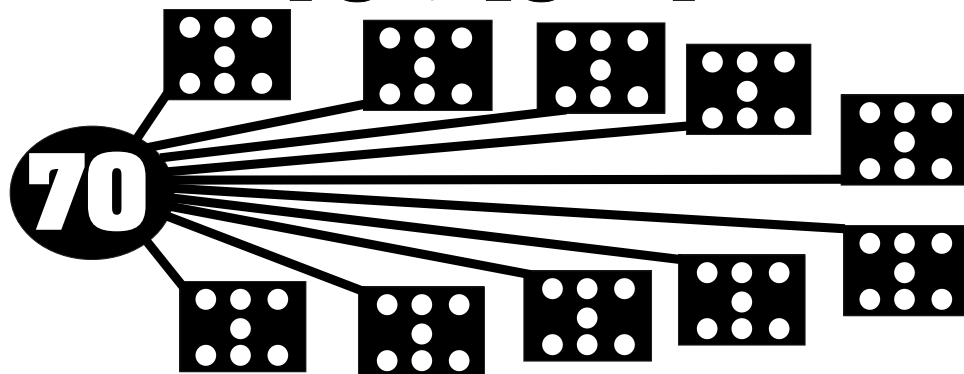
$$60 \div 10 = 6$$



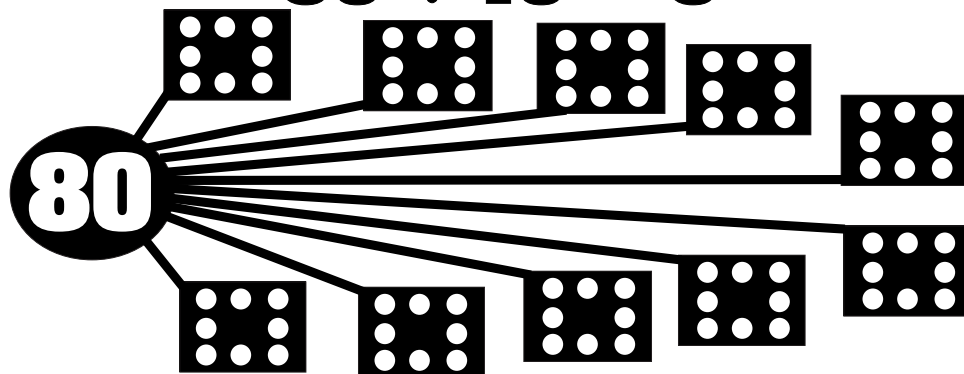
Division Strategies:

PARTITION

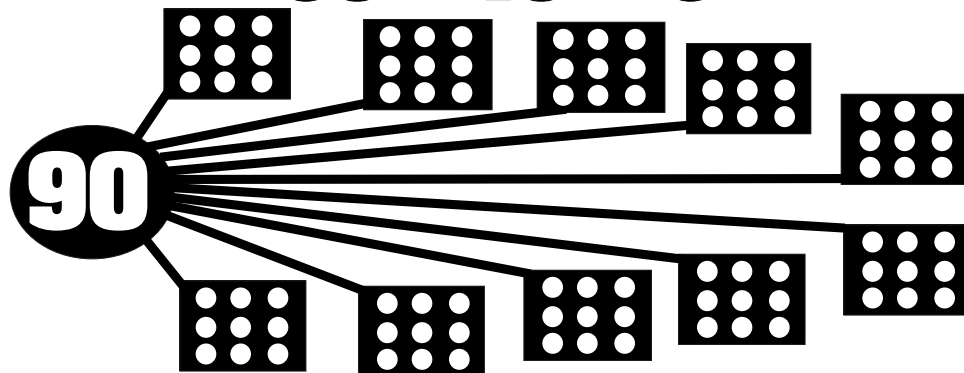
$$70 \div 10 = 7$$



$$80 \div 10 = 8$$



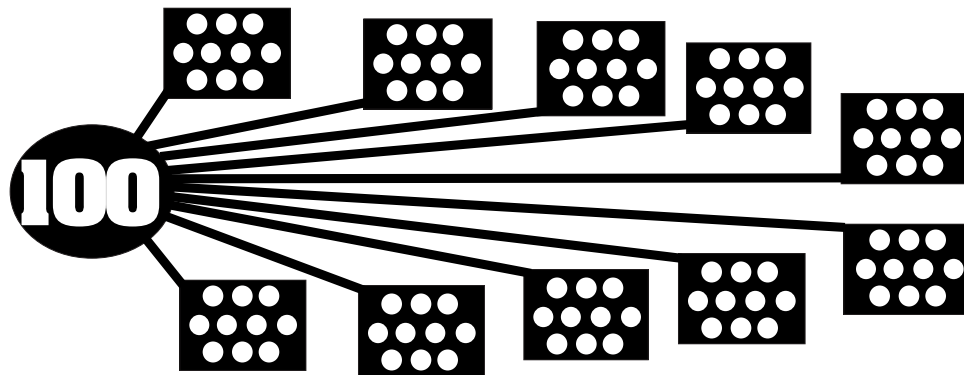
$$90 \div 10 = 9$$



Division Strategies:

PARTITION

$$100 \div 10 = 10$$



FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

$$60 \div 10 = \underline{6}$$

think

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

$$10 \div 10 = \underline{1}$$

think

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

$$80 \div 10 = \underline{8}$$

think

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

$$90 \div 10 = \underline{9}$$

think

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

Division Strategies:

RELATED FACT

$$20 \div 10 = \underline{2}$$

think

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

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

think

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

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

think

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

$$50 \div 10 = \underline{5}$$

think

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

Division Strategies:

RELATED FACT

$$100 \div 10 = \underline{10}$$

think

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

$$70 \div 10 = \underline{7}$$

think

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

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

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

$$60 \div 10 = ?$$

$$60 - 10 = 50$$

$$50 - 10 = 40$$

$$40 - 10 = 30$$

$$30 - 10 = 20$$

$$20 - 10 = 10$$

$$10 - 10 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$60 \div 10 = ?$$

$$60 - \underline{10} = 50$$

$$\underline{50} - 10 = 40$$

$$\underline{40} - 10 = 30$$

$$30 - \underline{10} = 20$$

$$20 - \underline{10} = 10$$

$$\underline{10} - 10 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$70 \div 10 = ?$$

$$70 - \underline{10} = 60$$

$$60 - \underline{10} = 50$$

$$\underline{50} - 10 = 40$$

$$\underline{40} - 10 = 30$$

$$30 - \underline{10} = 20$$

$$20 - \underline{10} = 10$$

$$\underline{10} - 10 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$50 \div 10 = ?$$

$$\underline{50} - 10 = 40$$

$$\underline{40} - 10 = 30$$

$$30 - \underline{10} = 20$$

$$20 - \underline{10} = 10$$

$$\underline{10} - 10 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$80 \div 10 = ?$$

$$80 - \underline{10} = 70$$

$$70 - \underline{10} = 60$$

$$60 - \underline{10} = 50$$

$$\underline{50} - 10 = 40$$

$$\underline{40} - 10 = 30$$

$$30 - \underline{10} = 20$$

$$20 - \underline{10} = 10$$

$$\underline{10} - 10 = 0$$

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

Division Strategies:

REPEATED SUBTRACTION

$$100 \div 10 = ?$$

$$100 - \underline{10} = 90$$

$$90 - \underline{10} = 80$$

$$80 - \underline{10} = 70$$

$$70 - \underline{10} = 60$$

$$60 - \underline{10} = 50$$

$$\underline{50} - 10 = 40$$

$$\underline{40} - 10 = 30$$

$$30 - \underline{10} = 20$$

$$20 - \underline{10} = 10$$

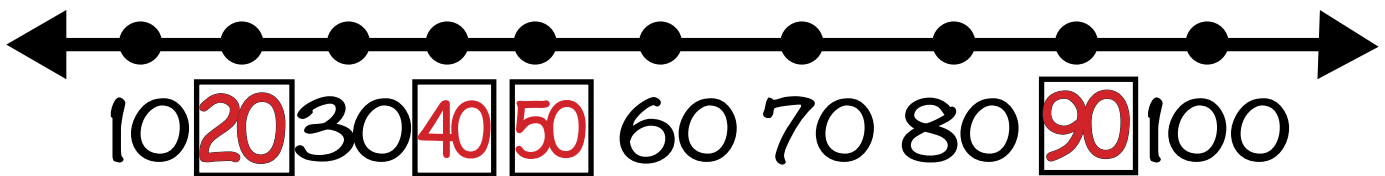
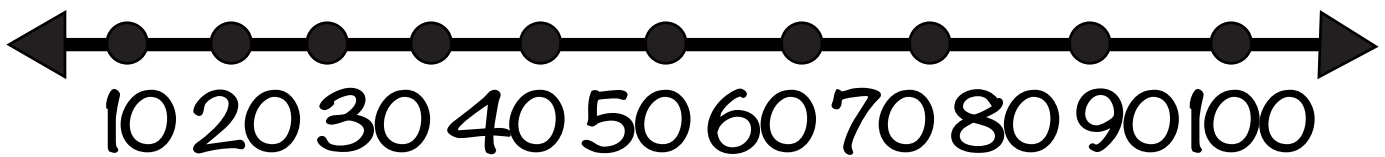
$$\underline{10} - 10 = 0$$

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

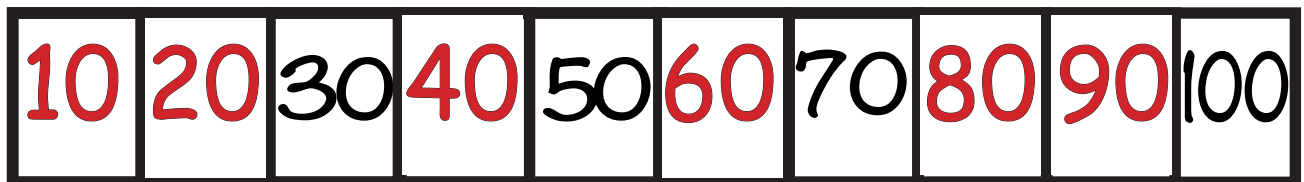
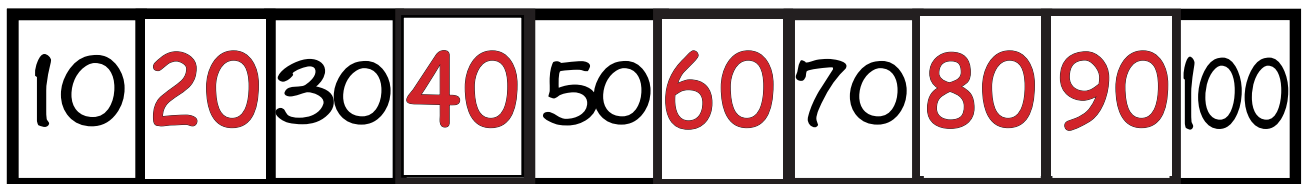
Modeling Division:

SKIP COUNTING

DRAW ON A NUMBER LINE



FILL IN THE MISSING NUMBERS



Modeling Division:

SKIP COUNTING

FILL IN THE MISSING NUMBERS

10	20	30	40	50	60	70	80	90	100
----	----	----	----	----	----	----	----	----	-----

FILL IN THE MISSING NUMBERS

10	20	30	40	50	60	70	80	90	100
----	----	----	----	----	----	----	----	----	-----

FILL IN THE MISSING NUMBERS

10	20	30	40	50	60	70	80	90	100
----	----	----	----	----	----	----	----	----	-----

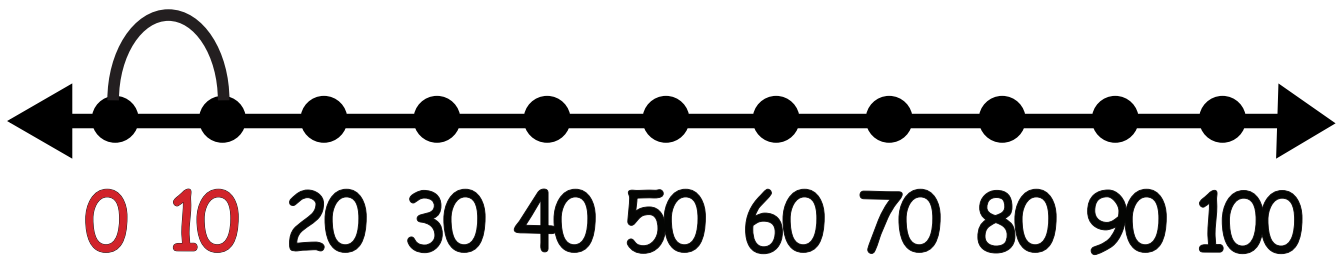
FILL IN THE MISSING NUMBERS

10	20	30	40	50	60	70	80	90	100
----	----	----	----	----	----	----	----	----	-----

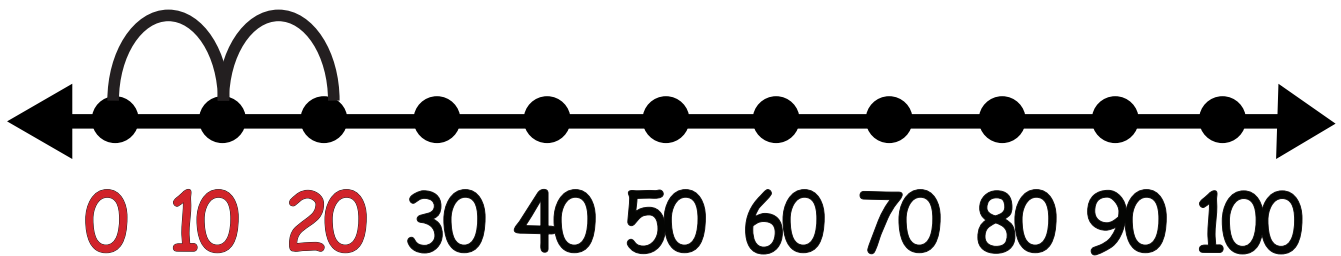
Division Strategies:

SKIP COUNTING

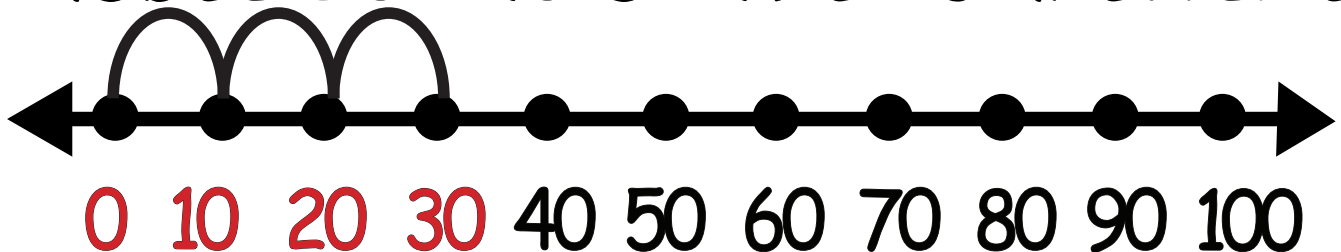
MODEL $10 \div 10$ ON THE NUMBER LINE



MODEL $20 \div 10$ ON THE NUMBER LINE



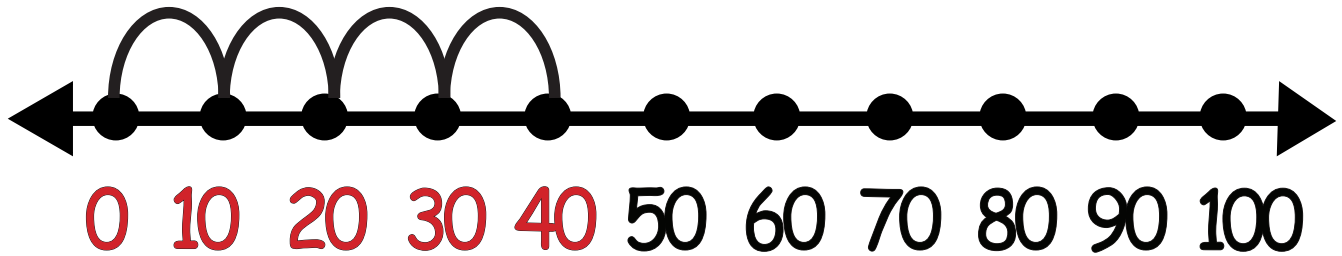
MODEL $30 \div 10$ ON THE NUMBER LINE



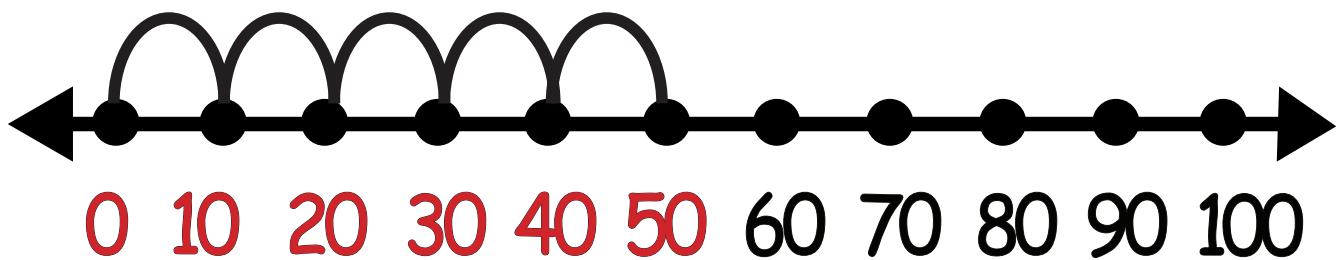
Division Strategies:

SKIP COUNTING

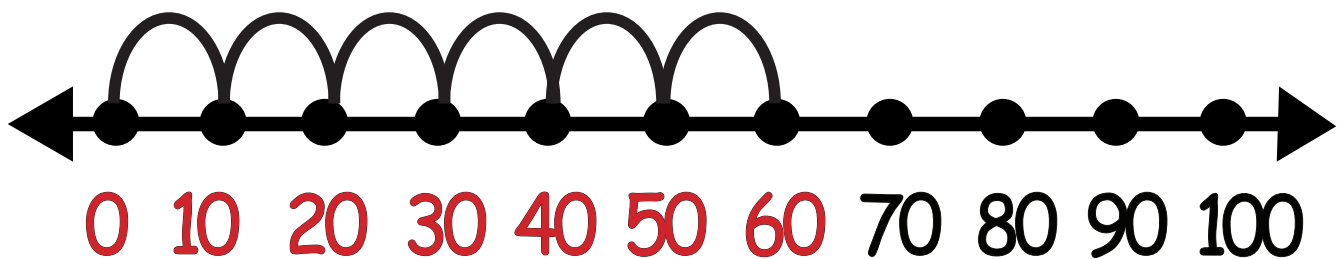
MODEL $40 \div 10$ ON THE NUMBER LINE



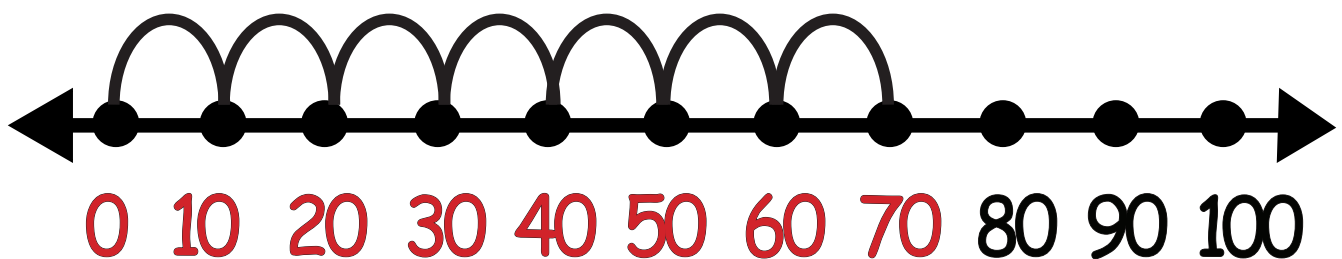
MODEL $50 \div 10$ ON THE NUMBER LINE



MODEL $60 \div 10$ ON THE NUMBER LINE



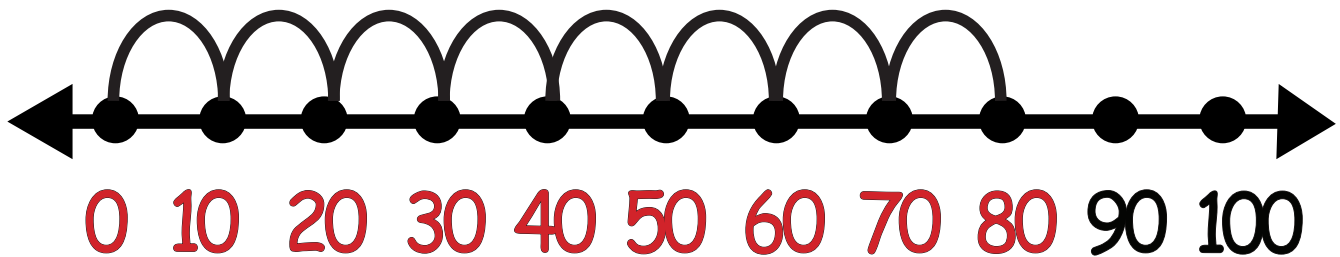
MODEL $70 \div 10$ ON THE NUMBER LINE



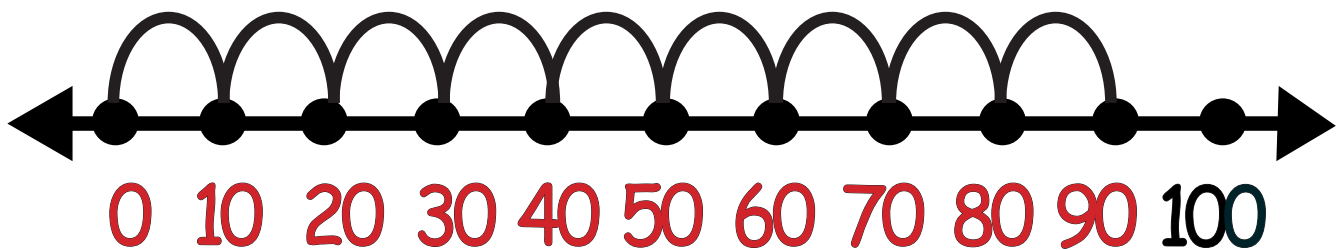
Division Strategies:

SKIP COUNTING

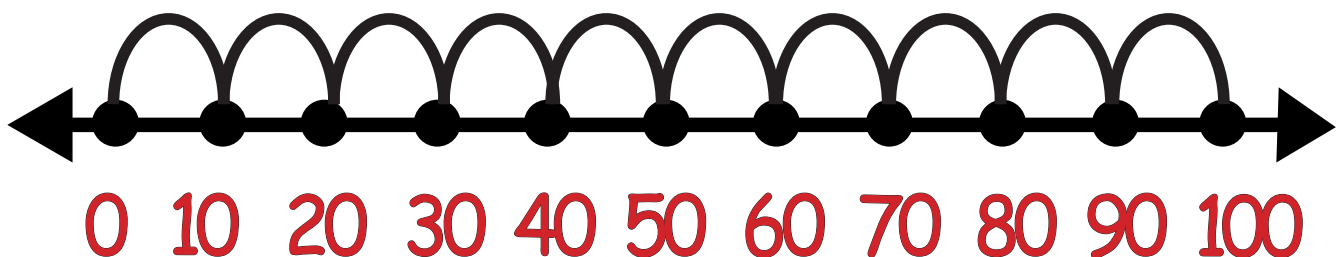
MODEL $80 \div 10$ ON THE NUMBER LINE



MODEL $90 \div 10$ ON THE NUMBER LINE



MODEL $100 \div 10$ ON THE NUMBER LINE



Division Strategies:

NUMBER LINES

THERE ARE 20 COOKIES AND YOU PUT 10 IN A BAG. HOW MANY BAGS DO YOU HAVE?

$$20 \div 10 = 2$$

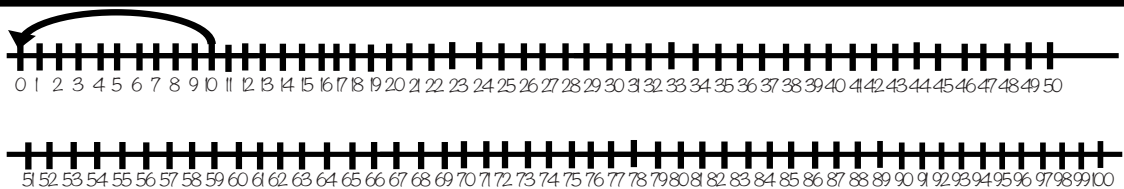


HOW MANY JUMPS UNTIL YOU GET TO ZERO?

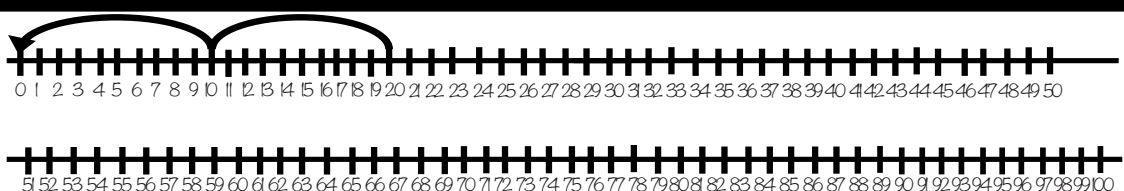
THE FIRST NUMBER IS HOW MANY COOKIES (DIVIDEND). THE SECOND NUMBER IS HOW MANY ARE IN A BAG (DIVISOR). THE QUESTION IS HOW MANY BAGS DO YOU NEED (QUOTIENT)?

SOLVE THE PROBLEM ON THE NUMBER LINE.
HOW MANY JUMPS UNTIL YOU GET TO ZERO?

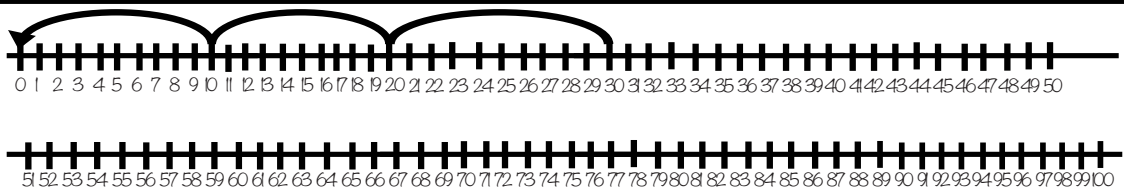
$$10 \div 10$$



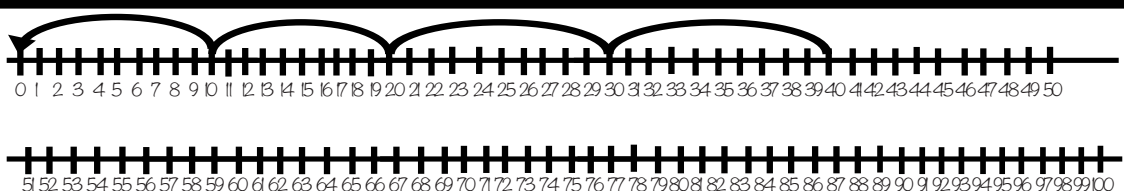
$$20 \div 10$$



$$30 \div 10$$



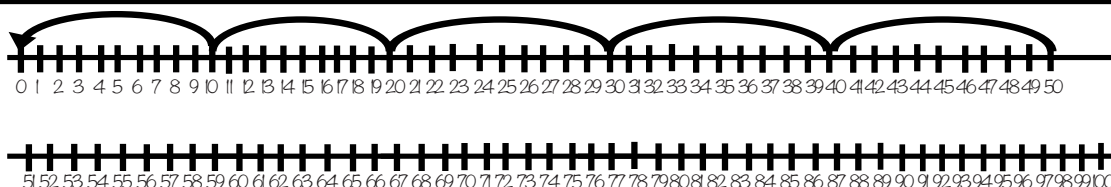
$$40 \div 10$$



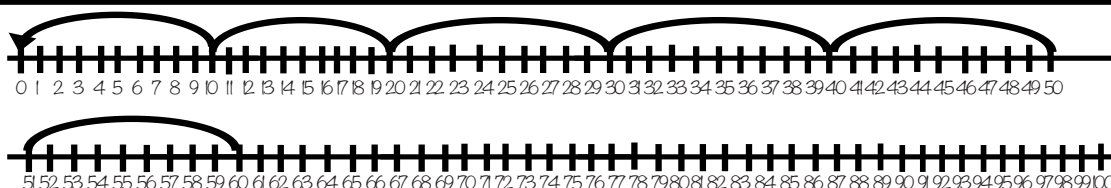
Division Strategies:

NUMBER LINES

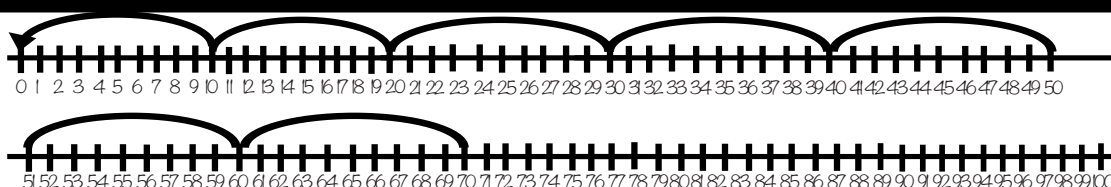
$$50 \div 10$$



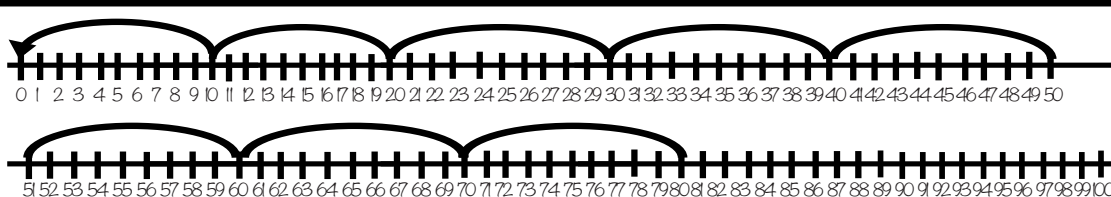
$$60 \div 10$$



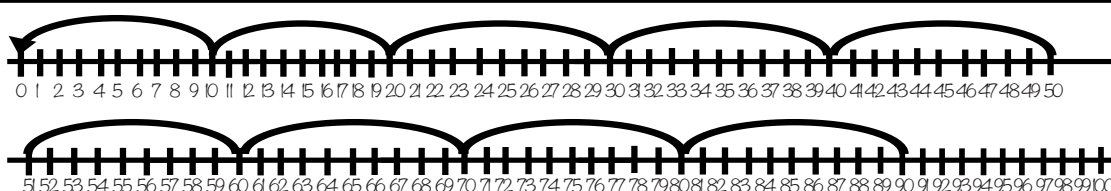
$$70 \div 10$$



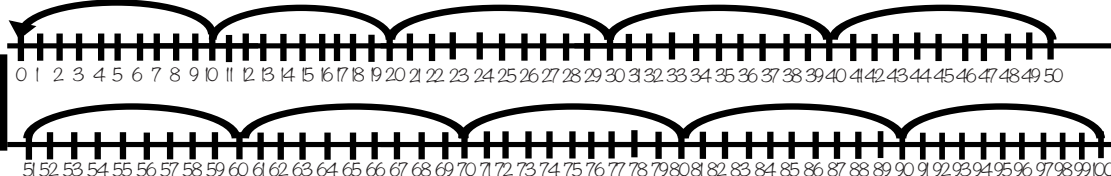
$$80 \div 10$$



$$90 \div 10$$



$$100 \div 10$$



Division Strategies:

SKIP COUNTING CHART

10

20

30

40

50

60

70

80

90

100

Division Vocabulary

dividend

divisor

quotient

$$50 \div 10 = 5$$

divisor

$$\begin{array}{r} 5 \\ 10 \overline{) 50} \end{array}$$

quotient

dividend

dividend

$$\frac{50}{10} = 5$$

quotient

divisor

Array Flashcards

USE THE MODEL TO SOLVE



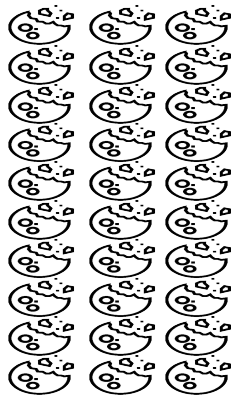
$$10 \div 10 = \underline{1}$$



$$20 \div 10 = \underline{2}$$

Array Flashcards

USE THE MODEL TO SOLVE



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



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

Array Flashcards

USE THE MODEL TO SOLVE



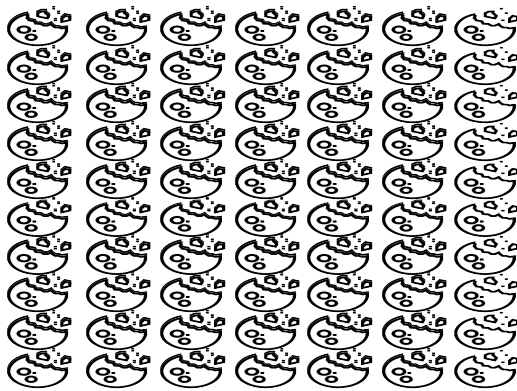
$$50 \div 10 = \underline{5}$$



$$60 \div 10 = \underline{6}$$

Array Flashcards

USE THE MODEL TO SOLVE



$$70 \div 10 = \underline{7}$$



$$80 \div 10 = \underline{8}$$

Array Flashcards

USE THE MODEL TO SOLVE



$$90 \div 10 = \underline{9}$$



$$100 \div 10 = \underline{10}$$

Array Flashcards

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

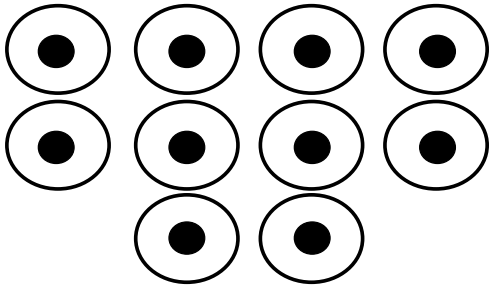
FREE CHOICE

FREE CHOICE

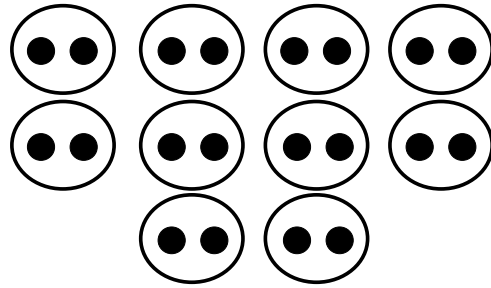
Equal Group Flashcards

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

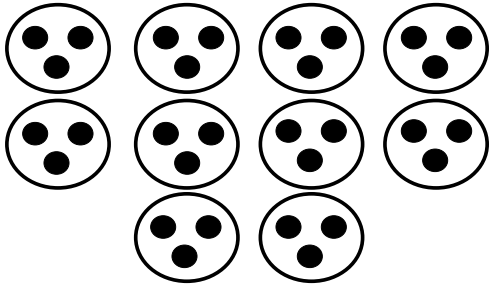
$$10 \div 10 = \underline{1}$$



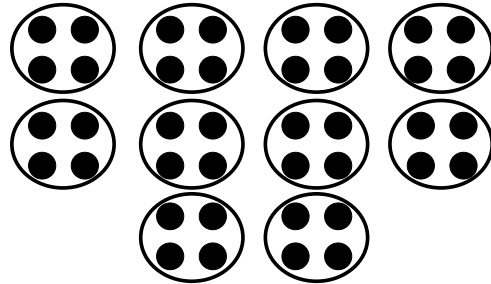
$$20 \div 10 = \underline{2}$$



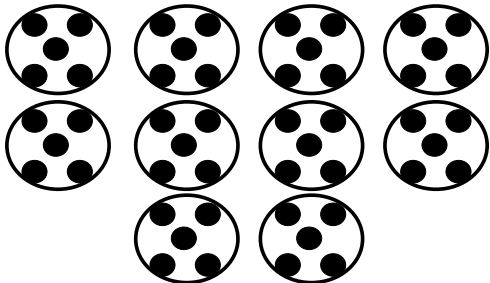
$$30 \div 10 = \underline{3}$$



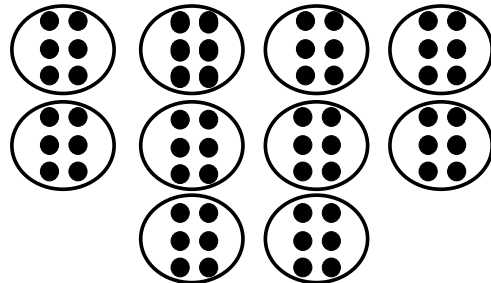
$$40 \div 10 = \underline{4}$$



$$50 \div 10 = \underline{5}$$



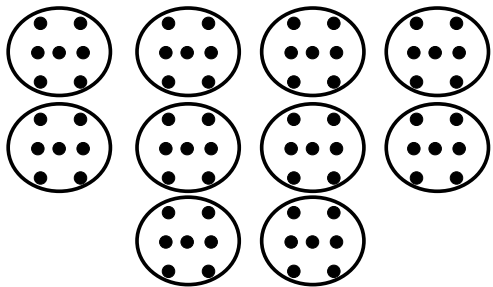
$$60 \div 10 = \underline{6}$$



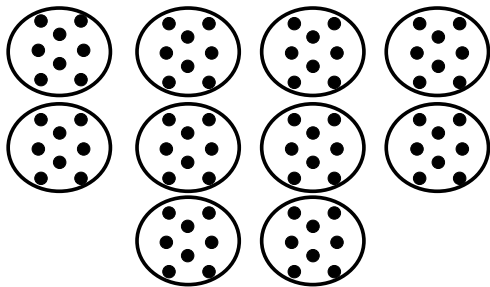
Equal Group Flashcards

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

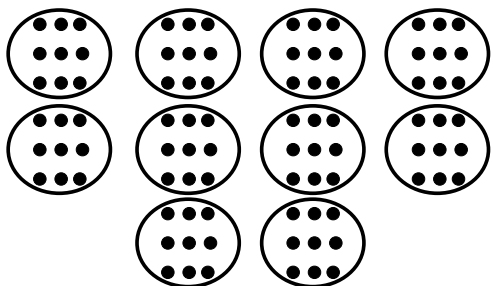
$70 \div 10 =$ 7



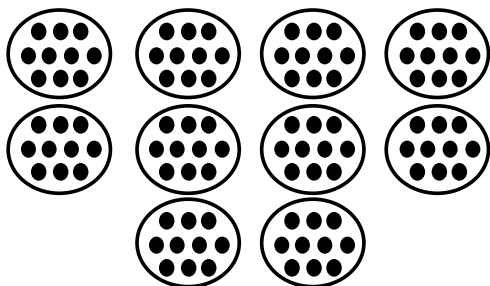
$80 \div 10 =$ 8



$90 \div 10 =$ 9



$100 \div 10 =$ 10



Regular Flashcards

$$0 \div 10$$

$$10 \div 10$$

$$20 \div 10$$

$$30 \div 10$$

$$40 \div 10$$

$$50 \div 10$$

Regular Flashcards

$$60 \div 10$$

$$70 \div 10$$

$$80 \div 10$$

$$90 \div 10$$

$$100 \div 10$$

Dividing by 10 Calling Cards

0	1	2	3	4
5	6	7	8	9
10				

Dividing by 10 4 IN A ROW

CHECK YOUR
ANSWERS USING
YOUR BOOKMARK.

$60 \div 10 = ?$

$80 \div 10 = ?$

$40 \div 10 = ?$

$20 \div 10 = ?$

$70 \div 10 = ?$

$0 \div 10 = ?$

$70 \div 10 = ?$

$20 \div 10 = ?$

$30 \div 10 = ?$

$90 \div 10 = ?$

$40 \div 10 = ?$

$80 \div 10 = ?$

$90 \div 10 = ?$

$100 \div 10 = ?$

$80 \div 10 = ?$

$50 \div 10 = ?$

$90 \div 10 = ?$

$30 \div 10 = ?$

$10 \div 10 = ?$

$60 \div 10 = ?$

$80 \div 10 = ?$

$0 \div 10 = ?$

$100 \div 10 = ?$

$50 \div 10 = ?$

$30 \div 10 = ?$

$70 \div 10 = ?$

$90 \div 10 = ?$

$20 \div 10 = ?$

$0 \div 10 = ?$

$90 \div 10 = ?$

$70 \div 10 = ?$

$20 \div 10 = ?$

$30 \div 10 = ?$

$90 \div 10 = ?$

$40 \div 10 = ?$

$80 \div 10 = ?$

$60 \div 10 = ?$

$30 \div 10 = ?$

$80 \div 10 = ?$

$20 \div 10 = ?$

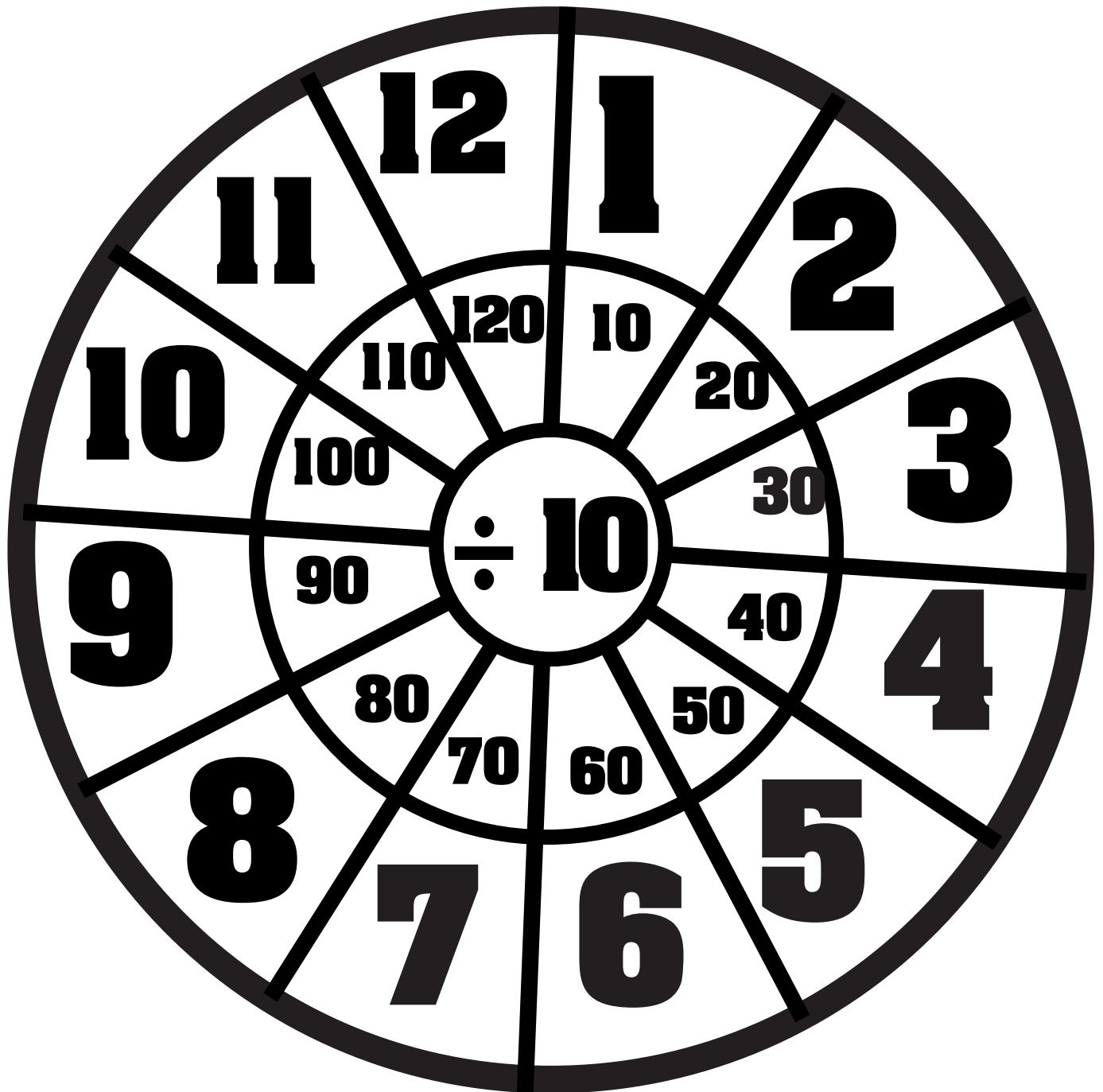
$50 \div 10 = ?$

$10 \div 10 = ?$

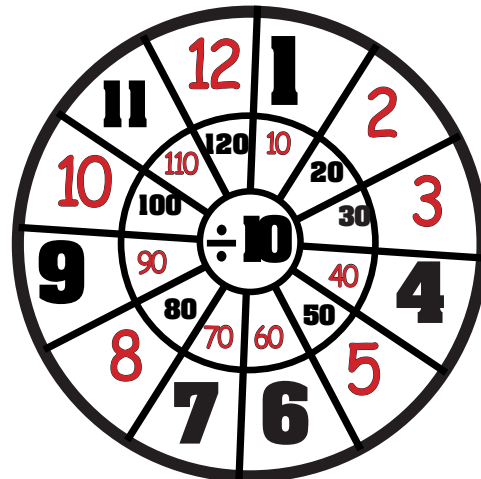
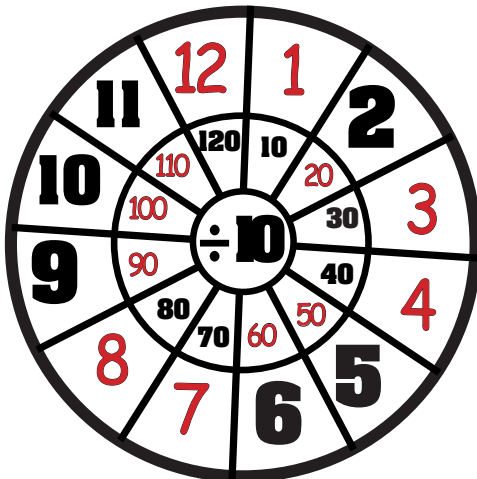
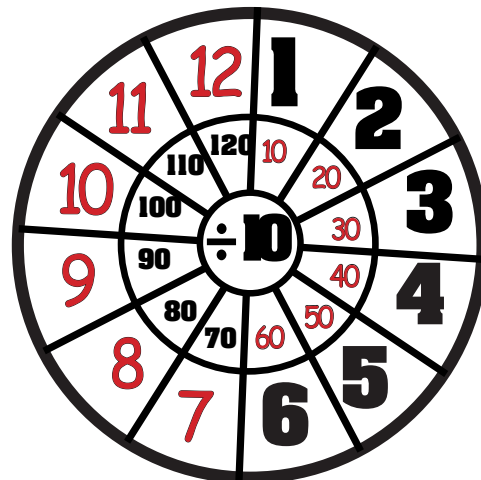
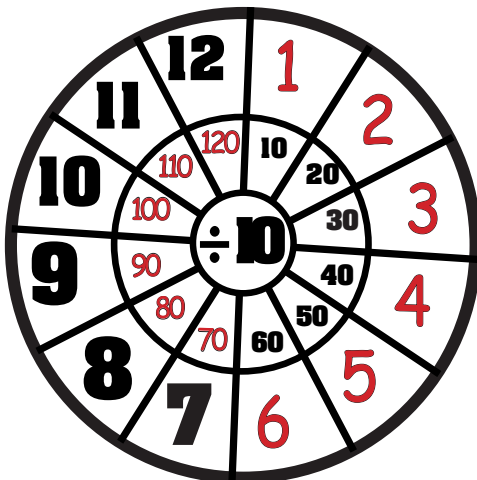
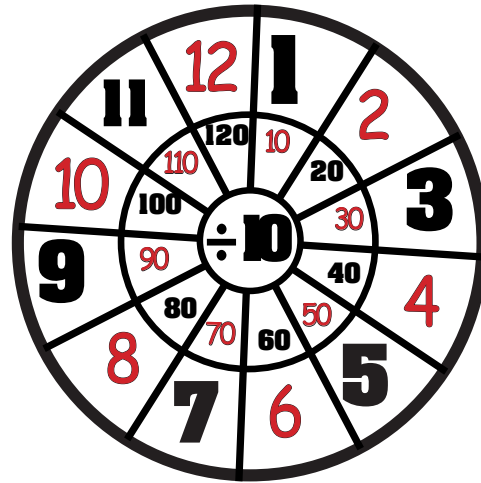
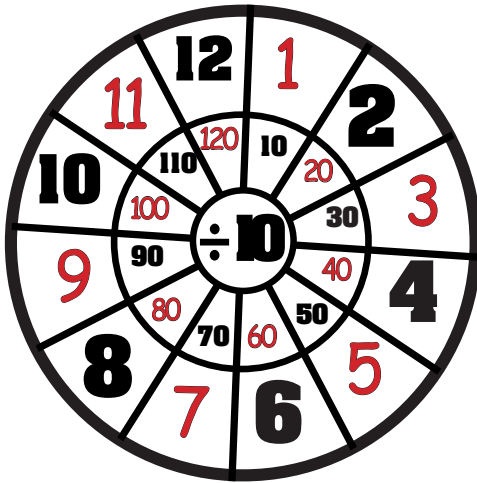
Instructions:

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

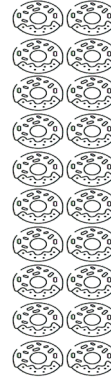


$$\begin{array}{r} 10 \\ \hline 1 \end{array} \times \begin{array}{r} 1 \\ \hline 10 \end{array} = \begin{array}{r} 10 \\ \hline 10 \end{array}$$

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

$$\begin{array}{r} 10 \\ \hline 10 \end{array} \div \begin{array}{r} 10 \\ \hline 1 \end{array} = \begin{array}{r} 1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 10 \\ \hline 10 \end{array} \div \begin{array}{r} 1 \\ \hline 10 \end{array} = \begin{array}{r} 10 \\ \hline 10 \end{array}$$

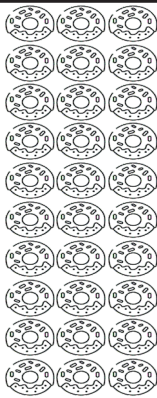


$$\begin{array}{r} 10 \\ \hline 2 \end{array} \times \begin{array}{r} 2 \\ \hline 20 \end{array} = \begin{array}{r} 20 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 20 \end{array} \times \begin{array}{r} 10 \\ \hline 20 \end{array} = \begin{array}{r} 20 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ \hline 20 \end{array} \div \begin{array}{r} 10 \\ \hline 2 \end{array} = \begin{array}{r} 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ \hline 20 \end{array} \div \begin{array}{r} 2 \\ \hline 20 \end{array} = \begin{array}{r} 10 \\ \hline 20 \end{array}$$

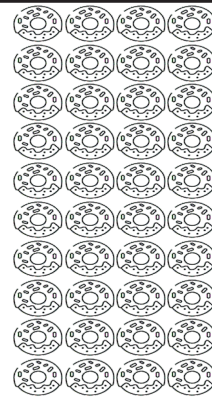


$$\begin{array}{r} 10 \\ \hline 3 \end{array} \times \begin{array}{r} 3 \\ \hline 30 \end{array} = \begin{array}{r} 30 \\ \hline 30 \end{array}$$

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

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

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



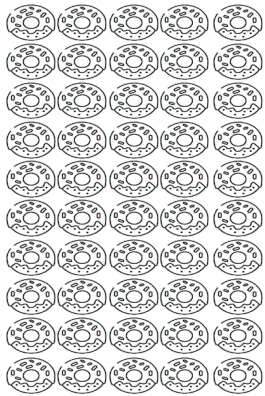
$$\begin{array}{r} 10 \\ \hline 4 \end{array} \times \begin{array}{r} 4 \\ \hline 40 \end{array} = \begin{array}{r} 40 \\ \hline 40 \end{array}$$

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

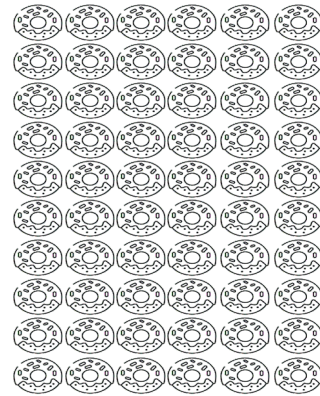
$$\begin{array}{r} 40 \\ \hline 40 \end{array} \div \begin{array}{r} 10 \\ \hline 4 \end{array} = \begin{array}{r} 4 \\ \hline 40 \end{array}$$

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

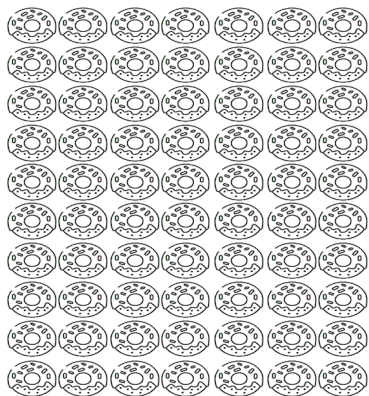
PICTURE FACT FAMILY



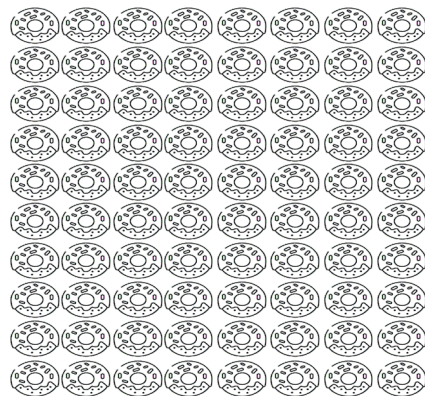
$$\begin{array}{rcl} 10 & \times & 5 = 50 \\ 5 & \times & 10 = 50 \\ 50 & \div & 10 = 5 \\ 50 & \div & 5 = 10 \end{array}$$



$$\begin{array}{rcl} 10 & \times & 6 = 60 \\ 6 & \times & 10 = 60 \\ 60 & \div & 10 = 6 \\ 60 & \div & 6 = 10 \end{array}$$

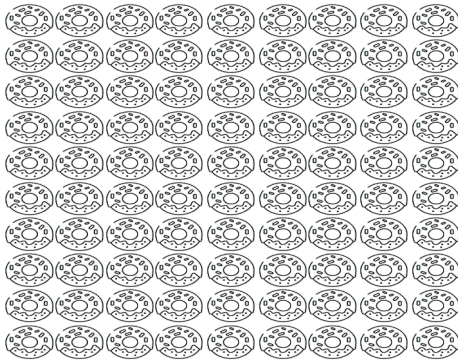


$$\begin{array}{rcl} 10 & \times & 7 = 70 \\ 7 & \times & 10 = 70 \\ 70 & \div & 10 = 7 \\ 70 & \div & 7 = 10 \end{array}$$



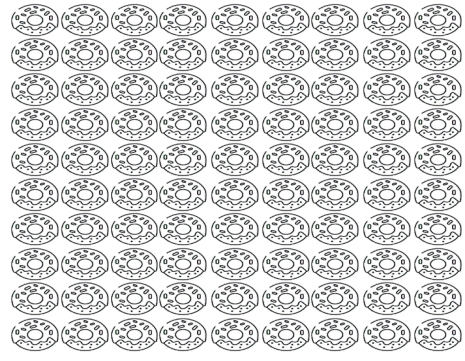
$$\begin{array}{rcl} 10 & \times & 8 = 80 \\ 8 & \times & 10 = 80 \\ 80 & \div & 10 = 8 \\ 80 & \div & 8 = 10 \end{array}$$

PICTURE FACT FAMILY



$$\begin{array}{r} 10 \\ \hline 9 \end{array} \times \begin{array}{r} 9 \\ \hline 10 \end{array} = \begin{array}{r} 90 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 90 \\ \hline 90 \end{array} \div \begin{array}{r} 10 \\ \hline 9 \end{array} = \begin{array}{r} 9 \\ \hline 10 \end{array}$$



$$\begin{array}{r} 10 \\ \hline 10 \end{array} \times \begin{array}{r} 10 \\ \hline 10 \end{array} = \begin{array}{r} 100 \\ \hline 100 \end{array}$$

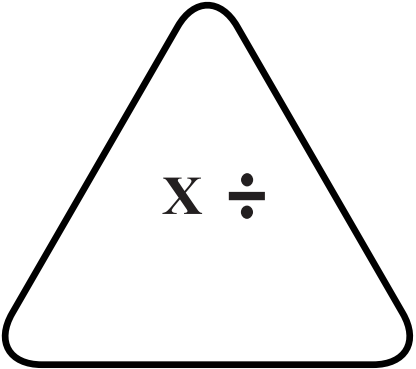
$$\begin{array}{r} 100 \\ \hline 100 \end{array} \div \begin{array}{r} 10 \\ \hline 10 \end{array} = \begin{array}{r} 10 \\ \hline 10 \end{array}$$

MAKE YOUR OWN

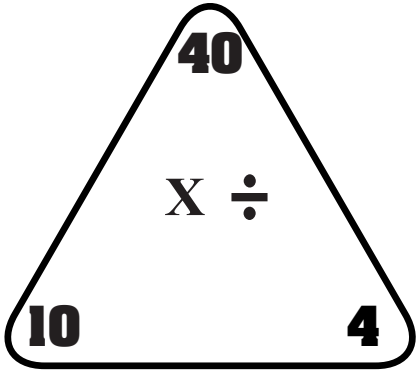
$$\begin{array}{r} ______ \\ \hline ______ \end{array} \times \begin{array}{r} ______ \\ \hline ______ \end{array} = \begin{array}{r} ______ \\ \hline ______ \end{array}$$

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

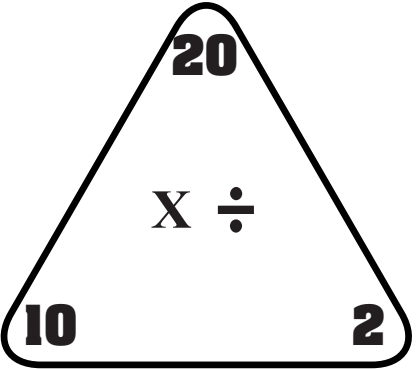
TRIANGLE FACT FAMILY



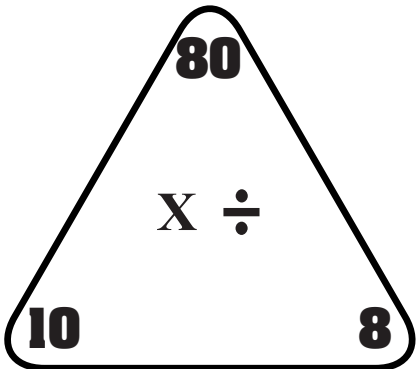
	x		=	
	x		=	
	÷		=	
	÷		=	



10	x	4	=	40
4	x	10	=	40
40	÷	10	=	4
40	÷	4	=	10

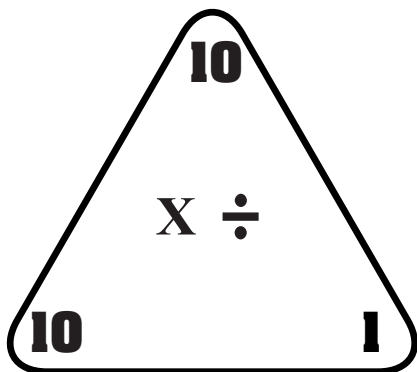


10	x	2	=	20
2	x	10	=	20
20	÷	10	=	2
20	÷	2	=	10

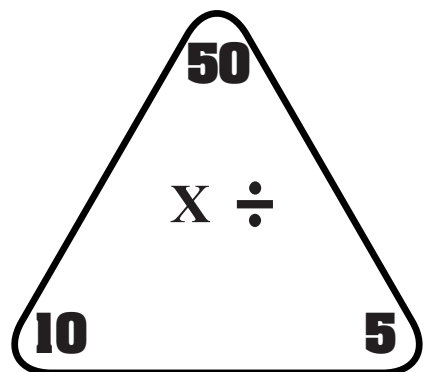


10	x	8	=	80
8	x	10	=	80
80	÷	10	=	8
80	÷	8	=	10

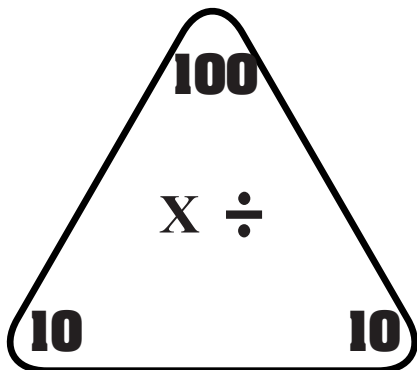
TRIANGLE FACT FAMILY



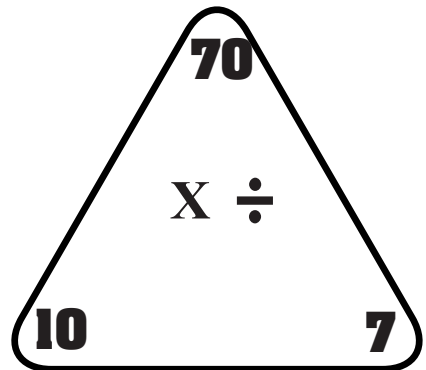
$\frac{10}{1} \times \frac{1}{10} = \frac{10}{10}$
 $\frac{1}{10} \times \frac{10}{1} = \frac{10}{10}$
 $\frac{10}{10} \div \frac{10}{10} = \frac{1}{1}$
 $\frac{10}{10} \div \frac{1}{1} = \frac{10}{10}$



$\frac{10}{5} \times \frac{5}{10} = \frac{50}{50}$
 $\frac{5}{10} \times \frac{10}{5} = \frac{50}{50}$
 $\frac{50}{50} \div \frac{10}{5} = \frac{5}{10}$
 $\frac{50}{50} \div \frac{5}{10} = \frac{10}{10}$



$\frac{10}{10} \times \frac{10}{10} = \frac{100}{100}$
 $\frac{10}{10} \times \frac{10}{10} = \frac{100}{100}$
 $\frac{100}{100} \div \frac{10}{10} = \frac{10}{10}$
 $\frac{100}{100} \div \frac{10}{10} = \frac{10}{10}$



$\frac{10}{7} \times \frac{7}{10} = \frac{70}{70}$
 $\frac{7}{10} \times \frac{10}{7} = \frac{70}{70}$
 $\frac{70}{70} \div \frac{10}{7} = \frac{7}{10}$
 $\frac{70}{70} \div \frac{7}{10} = \frac{10}{10}$

TRIANGLE FACT FAMILY

30

X ÷

10 3

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

90

X ÷

10 9

$$\begin{array}{r} 10 \times 9 = 90 \\ 9 \times 10 = 90 \\ 90 \div 10 = 9 \\ 90 \div 9 = 10 \end{array}$$

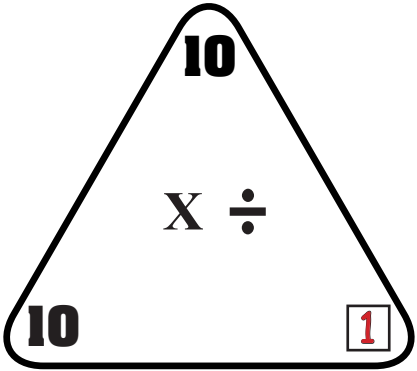
60

X ÷

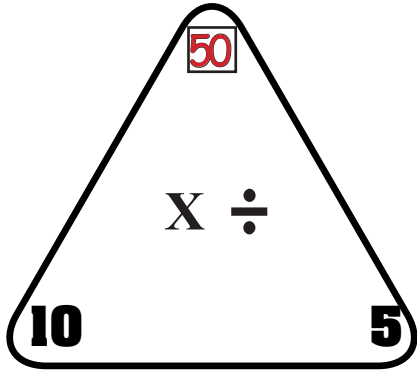
10 6

$$\begin{array}{r} 10 \times 6 = 60 \\ 6 \times 10 = 60 \\ 60 \div 10 = 6 \\ 60 \div 6 = 10 \end{array}$$

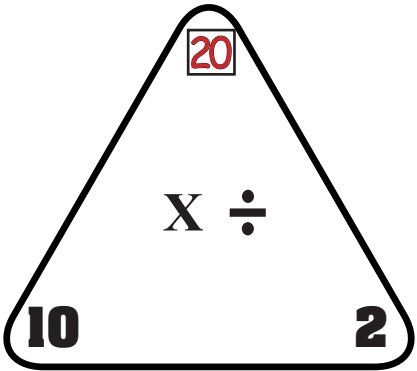
TRIANGLE FACT FAMILY



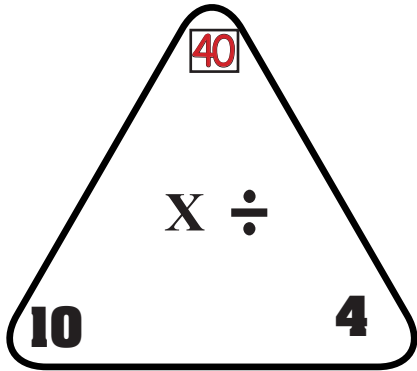
A triangle with the number 10 at the top vertex, 10 at the bottom-left vertex, and 1 at the bottom-right vertex. The center of the triangle contains the symbols $\times$ and $\div$.

$$\begin{array}{rcl} 10 & \times & 1 = 10 \\ 1 & \times & 10 = 10 \\ 10 & \div & 10 = 1 \\ 10 & \div & 1 = 10 \end{array}$$


A triangle with the number 50 at the top vertex, 10 at the bottom-left vertex, and 5 at the bottom-right vertex. The center of the triangle contains the symbols $\times$ and $\div$.

$$\begin{array}{rcl} 10 & \times & 5 = 50 \\ 5 & \times & 10 = 50 \\ 50 & \div & 10 = 5 \\ 50 & \div & 5 = 10 \end{array}$$


A triangle with the number 20 at the top vertex, 10 at the bottom-left vertex, and 2 at the bottom-right vertex. The center of the triangle contains the symbols $\times$ and $\div$.

$$\begin{array}{rcl} 10 & \times & 2 = 20 \\ 2 & \times & 10 = 20 \\ 20 & \div & 10 = 2 \\ 20 & \div & 2 = 10 \end{array}$$


A triangle with the number 40 at the top vertex, 10 at the bottom-left vertex, and 4 at the bottom-right vertex. The center of the triangle contains the symbols $\times$ and $\div$.

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

TRIANGLE FACT FAMILY

Triangle fact family for 10, 6, and 60:

$$\begin{array}{rcl} 10 & \times & 6 \\ \hline 6 & \times & 10 \\ \hline 60 & \div & 10 \\ \hline 60 & \div & 6 \end{array} = \begin{array}{rcl} 60 \\ 60 \\ 6 \\ 10 \end{array}$$

Triangle fact family for 10, 3, and 30:

$$\begin{array}{rcl} 10 & \times & 3 \\ \hline 3 & \times & 10 \\ \hline 30 & \div & 10 \\ \hline 30 & \div & 3 \end{array} = \begin{array}{rcl} 30 \\ 30 \\ 3 \\ 10 \end{array}$$

Triangle fact family for 10, 7, and 70:

$$\begin{array}{rcl} 10 & \times & 7 \\ \hline 7 & \times & 10 \\ \hline 70 & \div & 10 \\ \hline 70 & \div & 7 \end{array} = \begin{array}{rcl} 70 \\ 70 \\ 7 \\ 10 \end{array}$$

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM

THE BAKERY HAD 40 DONUTS IN 10 ROWS. THEY HAD THE SAME AMOUNT IN EACH ROW. HOW MANY WERE IN EACH ROW?

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

THE BAKERY HAD 60 DONUTS. THEY PUT 10 IN A ROW. HOW MANY ROWS DID THEY MAKE?

$$\underline{60} \div \underline{10} = \underline{6}$$

THE BAKERY MADE 90 MUFFINS. THEY PACKED 10 IN A BOX. HOW MANY BOXES DID THEY USE?

$$\underline{90} \div \underline{10} = \underline{9}$$

THE BAKERY MADE 10 HAND PIES. THEY USED 10 BOXES. THEY PUT THE SAME AMOUNT OF PIES IN EACH BOX. HOW MANY HAND PIES DID THEY PUT IN EACH BOX?

$$\underline{10} \div \underline{10} = \underline{1}$$

QUIZ

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

**I CAN SKIP COUNT TO
DIVIDE BY 10'S!**

**I CAN USE EQUAL GROUPS
TO DIVIDE BY 10'S!**

**I CAN USE ARRAYS TO
MODEL DIVIDING BY 10'S!**

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

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

**MY STRATEGY FOR THINKING
ABOUT DIVIDING BY 10'S IS....**

CERTIFICATE

★ **GREAT MATH WORK!** ★

HAS SUCCESSFULLY PRACTICED
DIVIDING BY 10'S!

GREAT JOB!

TEACHER: _____ DATE: _____

Looking at the 10's

$$10 \div 10 = 1$$

$$20 \div 10 = 2$$

$$30 \div 10 = 3$$

$$40 \div 10 = 4$$

$$50 \div 10 = 5$$

$$60 \div 10 = 6$$

$$70 \div 10 = 7$$

$$80 \div 10 = 8$$

$$90 \div 10 = 9$$

$$100 \div 10 = 10$$

Bookmarks

10
Division

$10 \div 10 = 1$
 $20 \div 10 = 2$
 $30 \div 10 = 3$
 $40 \div 10 = 4$
 $50 \div 10 = 5$
 $60 \div 10 = 6$
 $70 \div 10 = 7$
 $80 \div 10 = 8$
 $90 \div 10 = 9$
 $100 \div 10 = 10$

DIVIDING A NUMBER BY 10
Hint: Think Multiplication!
 $10 \times ? = \underline{\quad}$

10
DIVISION

$10 \div 10 = 1$
 $20 \div 10 = 2$
 $30 \div 10 = 3$
 $40 \div 10 = 4$
 $50 \div 10 = 5$
 $60 \div 10 = 6$
 $70 \div 10 = 7$
 $80 \div 10 = 8$
 $90 \div 10 = 9$
 $100 \div 10 = 10$

DIVIDING A NUMBER BY 10
Hint: Think Multiplication!
 $10 \times ? = \underline{\quad}$

10
DIVISION

$10 \div 10 = 1$
 $20 \div 10 = 2$
 $30 \div 10 = 3$
 $40 \div 10 = 4$
 $50 \div 10 = 5$
 $60 \div 10 = 6$
 $70 \div 10 = 7$
 $80 \div 10 = 8$
 $90 \div 10 = 9$
 $100 \div 10 = 10$

DIVIDING A NUMBER BY 10
Hint: Think Multiplication!
 $10 \times ? = \underline{\quad}$