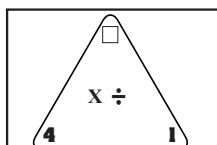


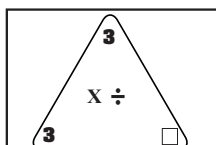
DIVIDING by ITSELF

WORK BOOKLET

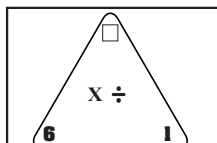
TRIANGLE FACT FAMILY



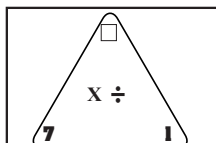
\times _____ = _____
 \times _____ = _____
 \div _____ = _____
 \div _____ = _____



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



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



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

Division Vocabulary

dividend

divisor

quotient

$$6 \div 6 = 1$$

divisor

$$6 \overline{) 6} \begin{array}{r} 1 \\ \end{array}$$

quotient

dividend

dividend

$$\frac{6}{6} = 1$$

quotient

divisor

DIVISION

$$9 \div 9 = 1$$



DIVIDEND



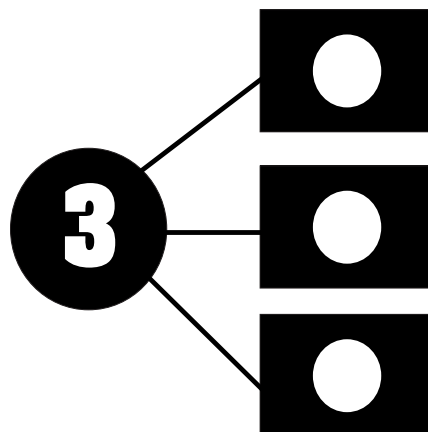
DIVISOR



QUOTIENT

Division Strategies:

PARTITION

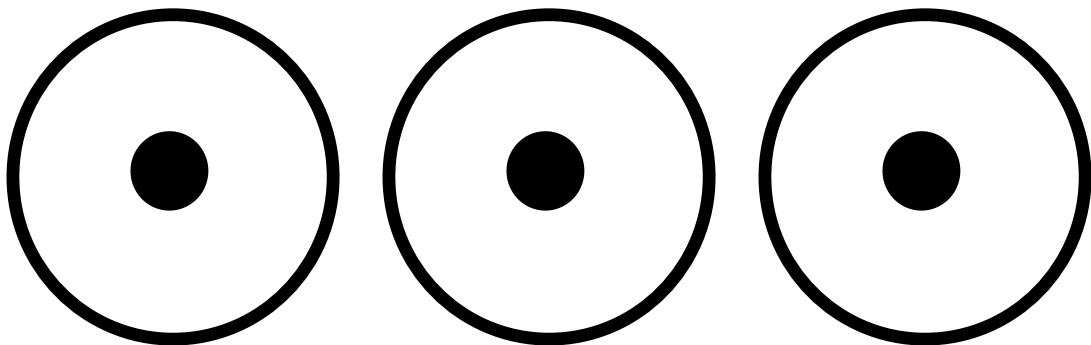


$$3 \div 3 = 1$$

STRATEGY POSTER

When dividing by **ITSELF**,
it's always 1

$$3 \div 3 = 1$$



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

DIVISION

$$9 \div 9 = 1$$



DIVIDEND



DIVISOR



QUOTIENT



VOCABULARY

DIVISION BY ITSELF PROPERTY

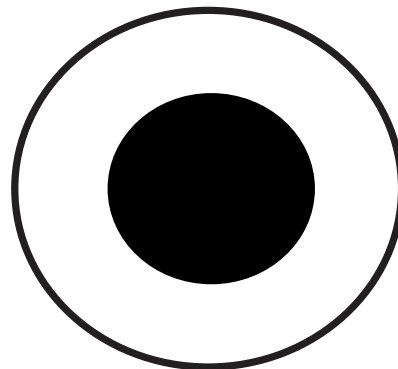
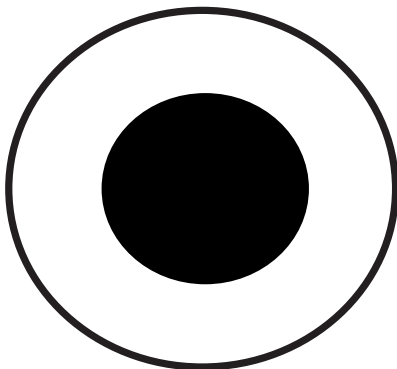
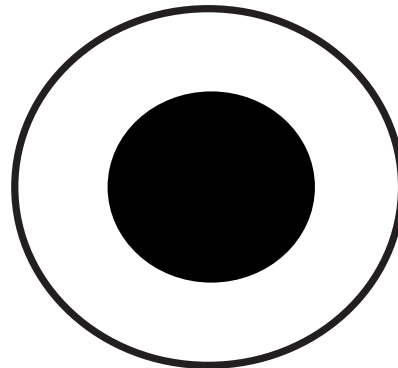
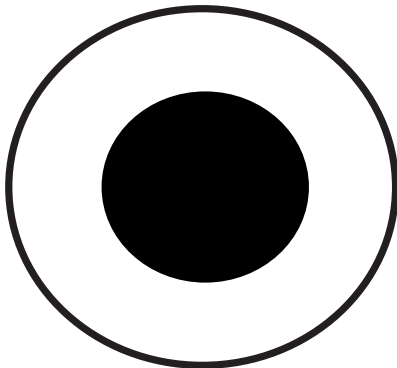
DIVIDING A NUMBER BY ITSELF

$$4 \div 4 = 1$$

$$10 \div 10$$

$$5 \div 5$$

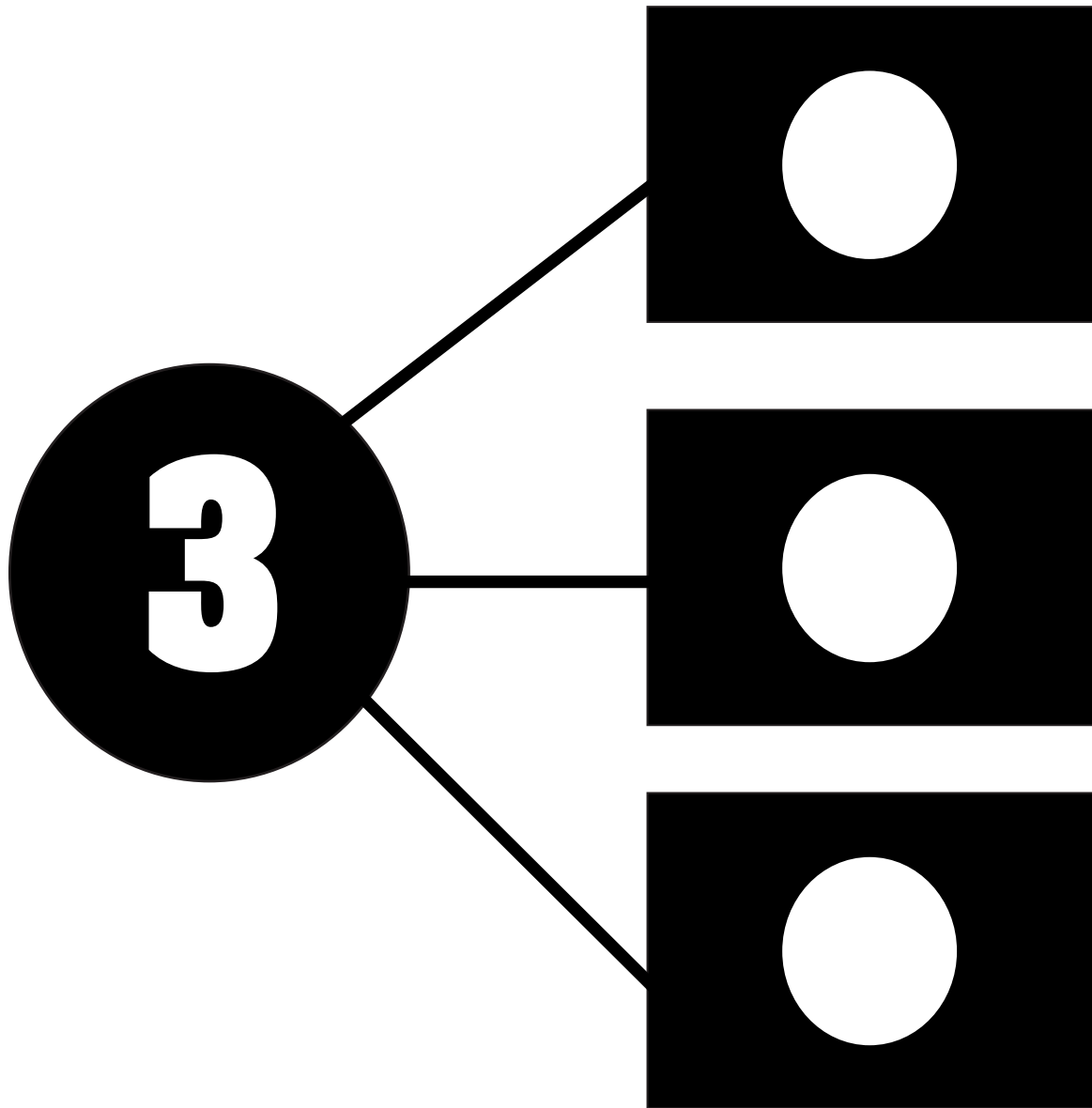
$$8 \div 8$$



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

Division Strategies:

PARTITION



$$3 \div 3 = 1$$

Division Strategies:

PARTITION

$$1 \div 1 = 1$$

$$2 \div 2 = 1$$

$$3 \div 3 = 1$$

Division Strategies:

PARTITION

$$4 \div 4 = 1$$

$$5 \div 5 = 1$$

$$6 \div 6 = 1$$

Division Strategies:

PARTITION

$$7 \div 7 = 1$$

$$8 \div 8 = 1$$

$$9 \div 9 = 1$$

Division Strategies:

PARTITION

$$10 \div 10 = 1$$

FREE CHOICE

FREE CHOICE

Division Strategies:

RELATED FACT

$$6 \div 6 = \underline{\quad}$$

think

$$6 \times \underline{\quad} = 6$$

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

think

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

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

think

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

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

think

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

Division Strategies:

RELATED FACT

$$2 \div 2 = \underline{\quad}$$

think

$$2 \times \underline{\quad} = 2$$

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

think

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

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

think

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

$$5 \div 5 = \underline{\quad}$$

think

$$5 \times \underline{\quad} = 5$$

Division Strategies:

RELATED FACT

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

think

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

$$7 \div 7 = \underline{\quad}$$

think

$$7 \times \underline{\quad} = 7$$

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

think

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

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

think

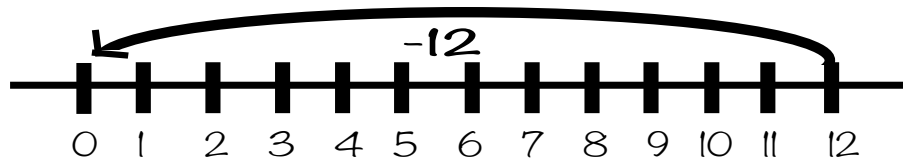
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Division Strategies:

NUMBER LINES

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

$$12 \div 12 = 1$$



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?

$$1 \div 1$$



$$2 \div 2$$



$$3 \div 3$$



$$4 \div 4$$



Division Strategies:

NUMBER LINES

$5 \div 5$



$6 \div 6$



$7 \div 7$



$8 \div 8$



$9 \div 9$



$10 \div 10$



Division Strategies: **SKIP COUNTING CHART**

1
2
3
4
5

6
7
8
9
10

Division Vocabulary

dividend

divisor

quotient

$$6 \div 6 = 1$$

divisor

$$\begin{array}{r} 1 \\ 6 \overline{) 6} \end{array}$$

quotient

dividend

dividend

$$\frac{6}{6} = 1$$

divisor

quotient

Array Flashcards

USE THE MODEL TO SOLVE



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



$$2 \div 2 = \underline{\quad}$$

Array Flashcards

USE THE MODEL TO SOLVE



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



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

Array Flashcards

USE THE MODEL TO SOLVE



$$5 \div 5 = \underline{\quad}$$



$$6 \div 6 = \underline{\quad}$$

Array Flashcards

USE THE MODEL TO SOLVE



$$7 \div 7 = \underline{\quad}$$



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

Array Flashcards

USE THE MODEL TO SOLVE



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



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

Array Flashcards

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

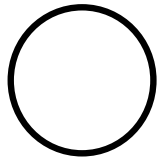
FREE CHOICE

FREE CHOICE

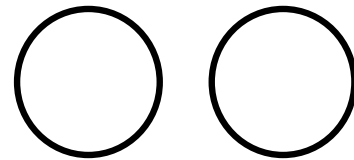
Equal Group Flashcards

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

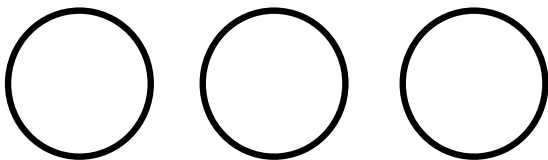
$$1 \div 1 = \underline{\quad}$$



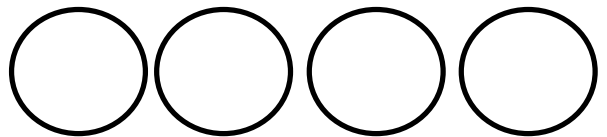
$$2 \div 2 = \underline{\quad}$$



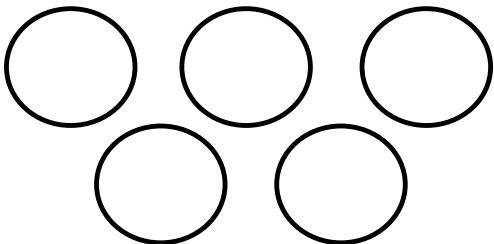
$$3 \div 3 = \underline{\quad}$$



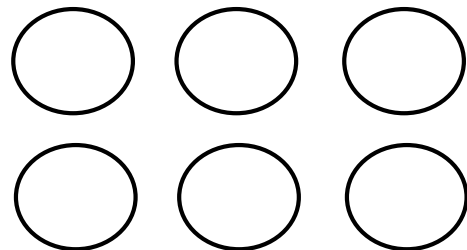
$$4 \div 4 = \underline{\quad}$$



$$5 \div 5 = \underline{\quad}$$



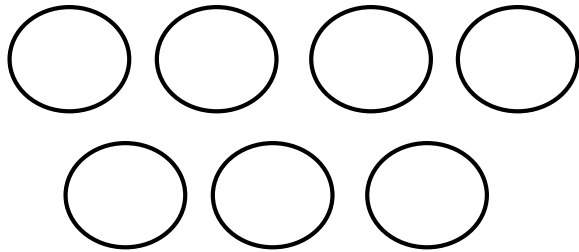
$$6 \div 6 = \underline{\quad}$$



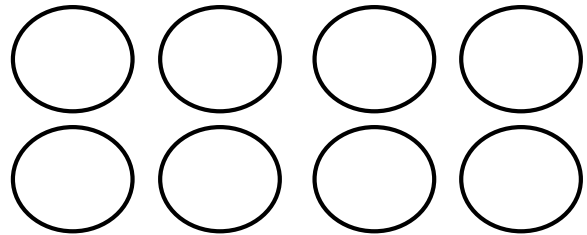
Equal Group Flashcards

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

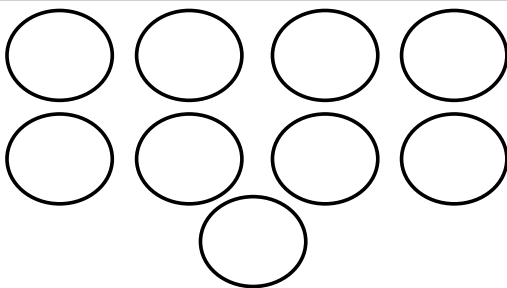
$$7 \div 7 = \underline{\quad}$$



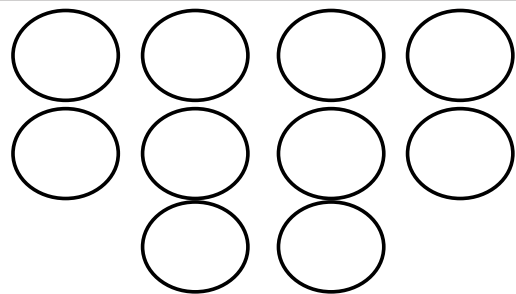
$$8 \div 8 = \underline{\quad}$$



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



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



Regular Flashcards

$$1 \div 1$$

$$2 \div 2$$

$$3 \div 3$$

$$4 \div 4$$

$$5 \div 5$$

$$6 \div 6$$

Regular Flashcards

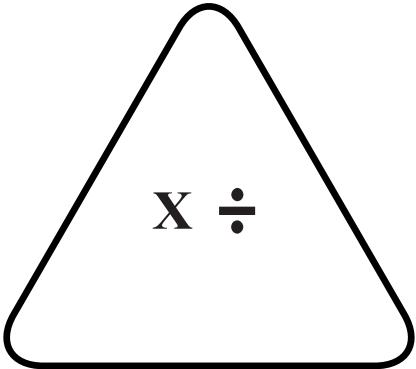
$$7 \div 7$$

$$8 \div 8$$

$$9 \div 9$$

$$10 \div 10$$

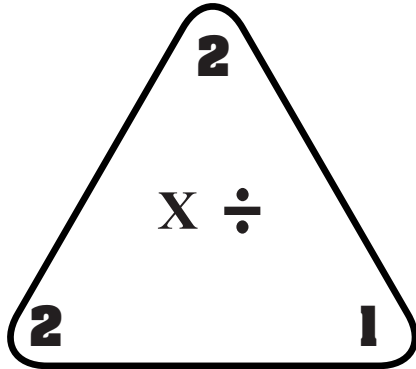
TRIANGLE FACT FAMILY



A triangle with the number 1 at the top vertex. Inside the triangle is the text "X ÷".

Below the triangle are four rows of blank lines for multiplication and division facts:

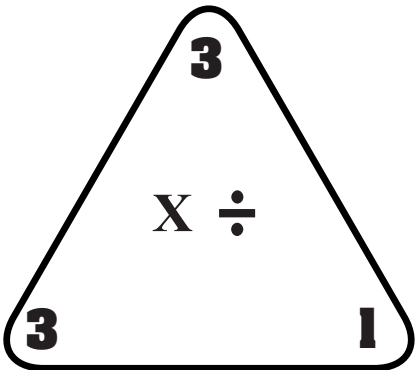
_____	x	_____	=	_____
_____	x	_____	=	_____
_____	÷	_____	=	_____
_____	÷	_____	=	_____



A triangle with the number 2 at the top vertex. Inside the triangle is the text "X ÷".

Below the triangle are four rows of blank lines for multiplication and division facts:

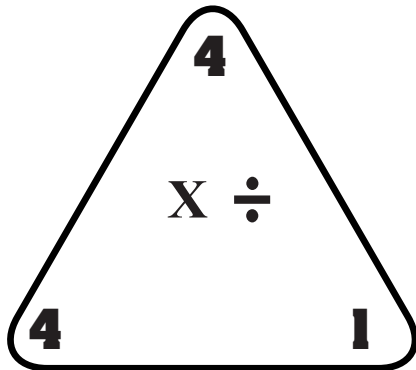
_____	x	_____	=	_____
_____	x	_____	=	_____
_____	÷	_____	=	_____
_____	÷	_____	=	_____



A triangle with the number 3 at the top vertex. Inside the triangle is the text "X ÷".

Below the triangle are four rows of blank lines for multiplication and division facts:

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



A triangle with the number 4 at the top vertex. Inside the triangle is the text "X ÷".

Below the triangle are four rows of blank lines for multiplication and division facts:

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

TRIANGLE FACT FAMILY

A triangle with the number 5 at the top vertex, 5 at the bottom-left vertex, and 1 at the bottom-right vertex. Inside the triangle are the symbols \times and \div .

\times =

 \times =

 \div =

 \div =

A triangle with the number 6 at the top vertex, 6 at the bottom-left vertex, and 1 at the bottom-right vertex. Inside the triangle are the symbols \times and \div .

\times =

 \times =

 \div =

 \div =

A triangle with the number 7 at the top vertex, 7 at the bottom-left vertex, and 1 at the bottom-right vertex. Inside the triangle are the symbols \times and \div .

\times =

 \times =

 \div =

 \div =

A triangle with the number 8 at the top vertex, 8 at the bottom-left vertex, and 1 at the bottom-right vertex. Inside the triangle are the symbols \times and \div .

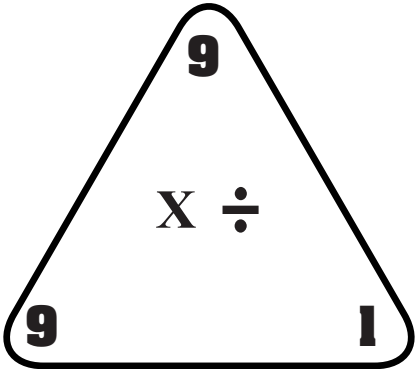
\times =

 \times =

 \div =

 \div =

TRIANGLE FACT FAMILY



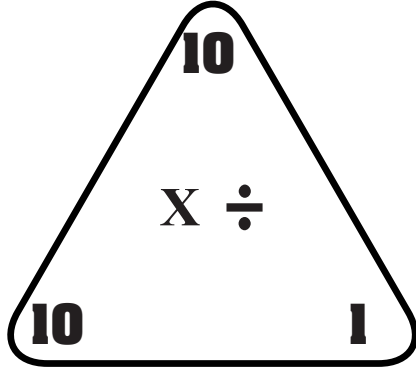
A triangle with the number 9 at the top vertex, 9 at the bottom-left vertex, and 1 at the bottom-right vertex. In the center of the triangle are the symbols \times and \div .

\times $=$

 \times $=$

 \div $=$

 \div $=$



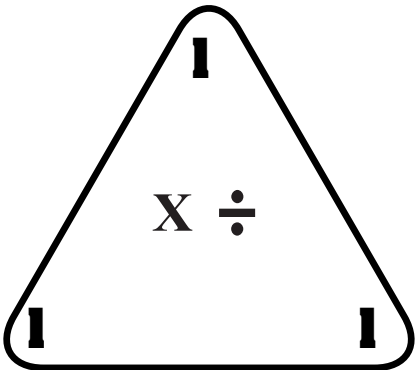
A triangle with the number 10 at the top vertex, 10 at the bottom-left vertex, and 1 at the bottom-right vertex. In the center of the triangle are the symbols \times and \div .

\times $=$

 \times $=$

 \div $=$

 \div $=$



A triangle with the number 1 at the top vertex, 1 at the bottom-left vertex, and 1 at the bottom-right vertex. In the center of the triangle are the symbols \times and \div .

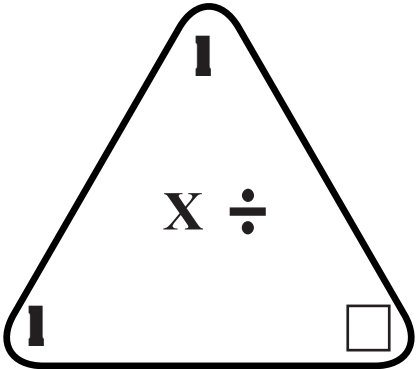
\times $=$

 \times $=$

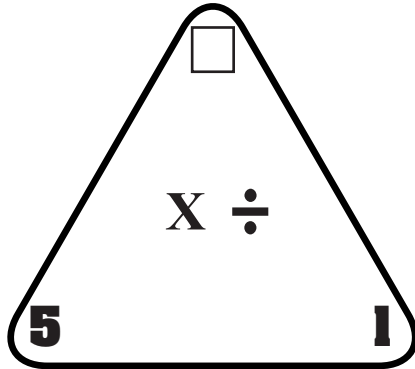
 \div $=$

 \div $=$

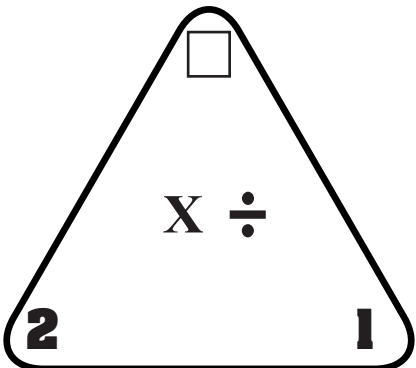
TRIANGLE FACT FAMILY



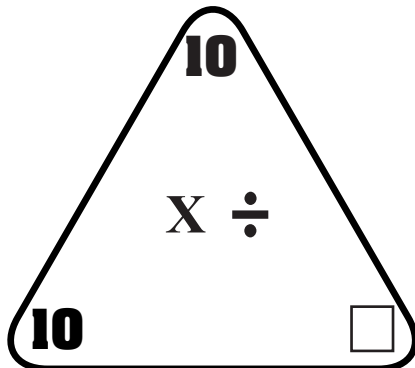
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



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

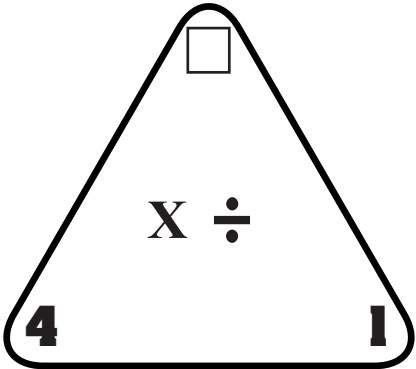


$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

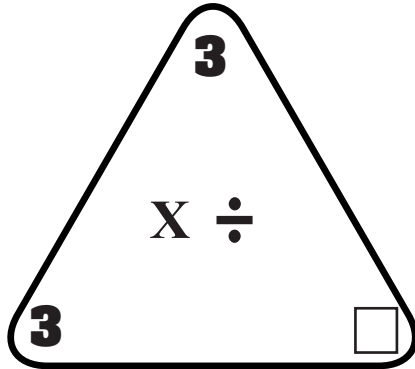


$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

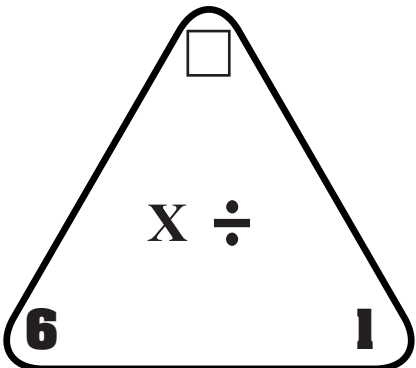
TRIANGLE FACT FAMILY



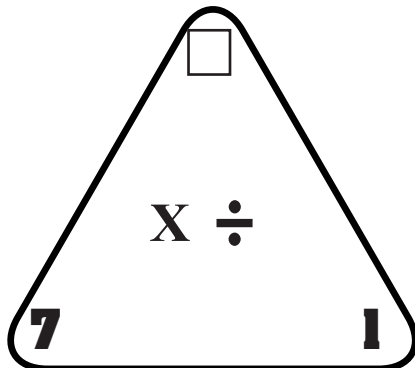
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \div \underline{\quad} = \underline{\quad}$



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



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



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

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM.

THE BAKERY HAD 9
DONUTS IN 9 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 5
DONUTS. THEY PUT 5 IN
A ROW. HOW MANY ROWS
DID THEY MAKE?

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

THE BAKERY MADE 12
MUFFINS. THEY PACKED 12
IN A BOX. HOW MANY
BOXES DID THEY USE?

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

THE BAKERY MADE 7 HAND
PIES. THEY USED 7
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 USE EQUAL GROUPS
TO DIVIDE BY ITSELF!**

**I CAN USE ARRAYS TO
MODEL DIVIDING BY
ITSELF!**

**I CAN MODEL DIVIDING BY
ITSELF ON THE NUMBER
LINE!**

**MY STRATEGY FOR THINKING
ABOUT DIVIDING BY ITSELF
IS....**

CERTIFICATE

★ **GREAT MATH WORK!** ★

HAS SUCCESSFULLY PRACTICED DIVIDING
BY ITSELF!

GREAT JOB!

TEACHER: _____ DATE: _____

Division by itself

$$1 \div 1 = 1$$

$$2 \div 2 = 1$$

$$3 \div 3 = 1$$

$$4 \div 4 = 1$$

$$5 \div 5 = 1$$

$$6 \div 6 = 1$$

$$7 \div 7 = 1$$

$$8 \div 8 = 1$$

$$9 \div 9 = 1$$

$$10 \div 10 = 1$$

Bookmarks

DIVIDING BY ITSELF

$$\begin{array}{l} 1 \div 1 = 1 \\ 2 \div 2 = 1 \\ 3 \div 3 = 1 \\ 4 \div 4 = 1 \\ 5 \div 5 = 1 \\ 6 \div 6 = 1 \\ 7 \div 7 = 1 \\ 8 \div 8 = 1 \\ 9 \div 9 = 1 \\ 10 \div 10 = 1 \end{array}$$

DIVIDING BY ITSELF

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

DIVIDING BY ITSELF

$$\begin{array}{l} 1 \div 1 = 1 \\ 2 \div 2 = 1 \\ 3 \div 3 = 1 \\ 4 \div 4 = 1 \\ 5 \div 5 = 1 \\ 6 \div 6 = 1 \\ 7 \div 7 = 1 \\ 8 \div 8 = 1 \\ 9 \div 9 = 1 \\ 10 \div 10 = 1 \end{array}$$

DIVIDING BY ITSELF

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

DIVIDING BY ITSELF

$$\begin{array}{l} 1 \div 1 = 1 \\ 2 \div 2 = 1 \\ 3 \div 3 = 1 \\ 4 \div 4 = 1 \\ 5 \div 5 = 1 \\ 6 \div 6 = 1 \\ 7 \div 7 = 1 \\ 8 \div 8 = 1 \\ 9 \div 9 = 1 \\ 10 \div 10 = 1 \end{array}$$

DIVIDING BY ITSELF

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