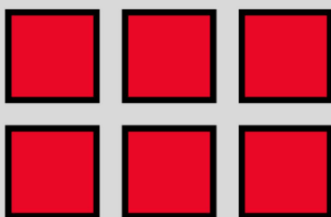# FACT FAMILIES

WATCH ME FIRST!

What is a Fact Family?

- It is a group of related number sentences.
- It can be related addition and subtraction facts or multiplication and division facts.
- Fact families use the same 3 numbers in all equations.
- They usually have 4 related facts. There are some exceptions. Square facts do not have 4 related facts (i.e. 3 x 3 = 9).

Fact Family

Three numbers in the fact family: _____, _____, _____

$2 \times 3 = 6$	$3 \times 2 = 6$
$6 \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$	$6 \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$

LET'S WORK TOGETHER!

1) Draw the missing model and fill in the blanks.

Fact Family

Three numbers in the fact family: _____, _____, _____

$5 \times 3 = 15$	$\rule{2em}{0.4pt} \times \rule{2em}{0.4pt} = 15$
$15 \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$	$\rule{2em}{0.4pt} \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$

FACT FAMILIES

YOUR TURN!

1) Use the completed multiplication equation to draw an array. Fill in all blanks.

Three numbers in the fact family: _____, _____, _____

$5 \times 6 =$ _____	$6 \times$ _____ $=$ _____
_____ $\div$ _____ $=$ _____	_____ $\div$ _____ $=$ _____

2) Circle all the equations that are in the same fact family as the multiplication fact below. Find the 3 numbers in the fact family.

$7 \times 4 = 28$

Three numbers in the fact family: _____, _____, _____

$6 \times 4 = 24$ $28 \div 4 = 7$ $4 + 7 = 11$
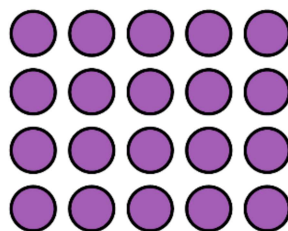
$4 \times 7 = 28$ $28 - 4 = 23$ $28 \div 7 = 4$

3) Fill in the blank fact family below.

Three numbers in the fact family: _____, _____, _____

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

FACT FAMILIES

YOUR TURN! (continued)

4) Use the completed multiplication equation to draw an array. Fill in all blanks.

Three numbers in the fact family: _____, _____, _____

$9 \times 4 = 36$	$4 \times \rule{2em}{0.4pt} = 36$
$\rule{2em}{0.4pt} \div 4 = \rule{2em}{0.4pt}$	$\rule{2em}{0.4pt} \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$

5) Circle all the equations that are in the same fact family as the multiplication fact below. Find the 3 numbers in the fact family.

$$7 \times 8 = 56$$

Three numbers in the fact family: _____, _____, _____

$56 \div 8 = 7$ $56 - 7 = 49$ $8 + 7 = 15$
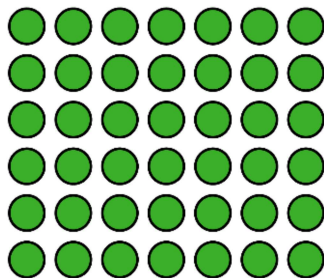
$7 \times 7 = 49$ $8 \times 7 = 56$ $56 \div 7 = 8$

6) Fill in the blank fact family below.

Three numbers in the fact family: _____, _____, _____

$\rule{2em}{0.4pt} \times \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$	$\rule{2em}{0.4pt} \times \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$
$\rule{2em}{0.4pt} \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$	$\rule{2em}{0.4pt} \div \rule{2em}{0.4pt} = \rule{2em}{0.4pt}$