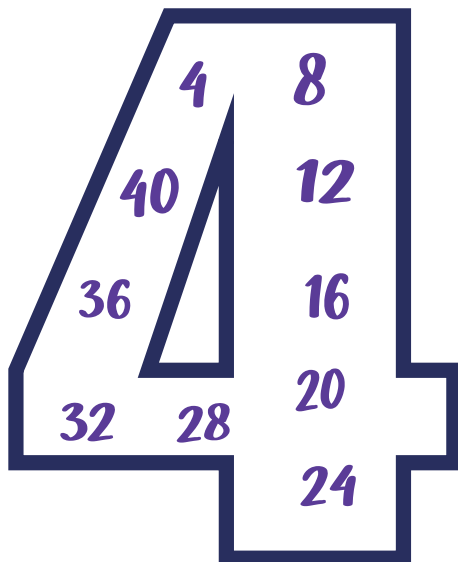


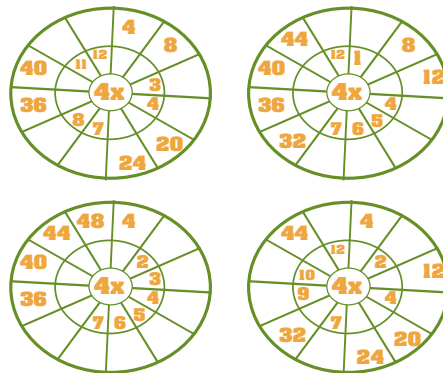
# MULTIPLYING by 4

## WORK BOOKLET

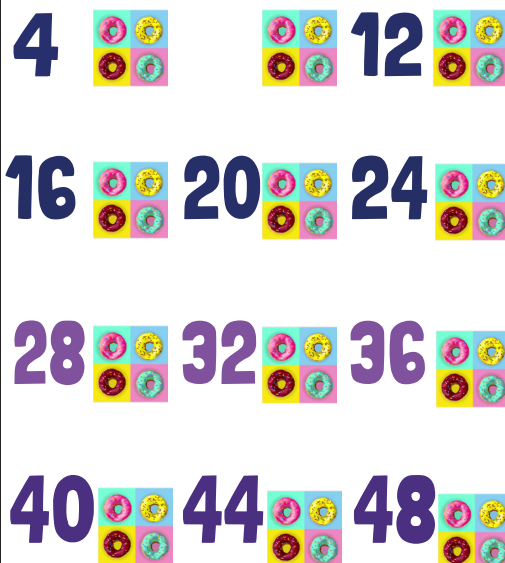
### MULTIPLES OF 4



### MULTIPLICATION WHEELS

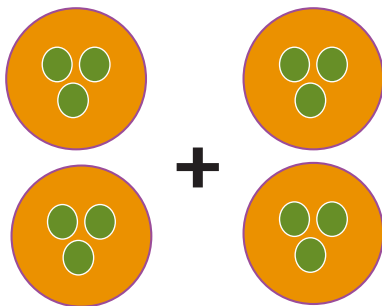


### MULTIPLES OF FOUR



$$4 \times 3 =$$

$$3 + 3 + 3 + 3 =$$



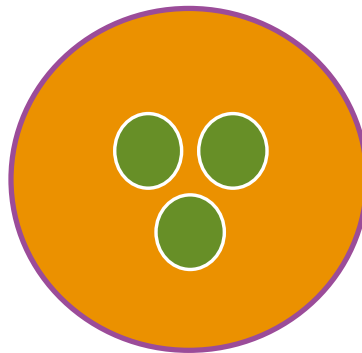
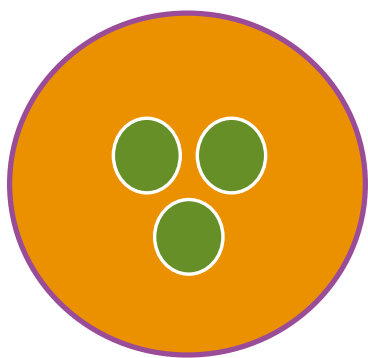
Hint: Doubles 2's + Double 2's.

# STRATEGY POSTER

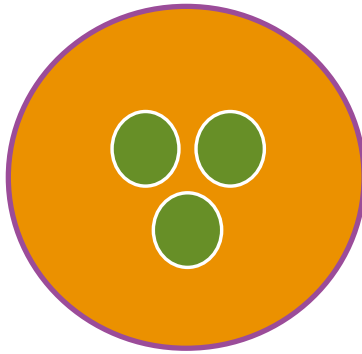
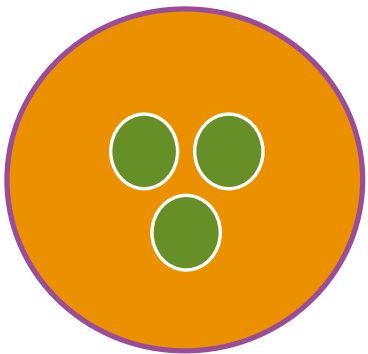
When multiplying by **4**  
**Double 2's plus Double 2's**

$$4 \times 3 =$$

$$3 + 3 + 3 + 3 =$$



+



**Hint: Doubles 2's + Double 2's.**

# MULTIPLICATION

$$4 \times 7 = 28$$



FACTOR






FACTOR



PRODUCT



# MULTIPLES OF FOUR


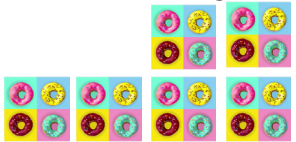
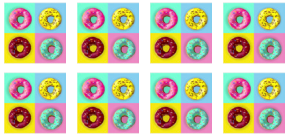


4  8  12 

16  20  24 

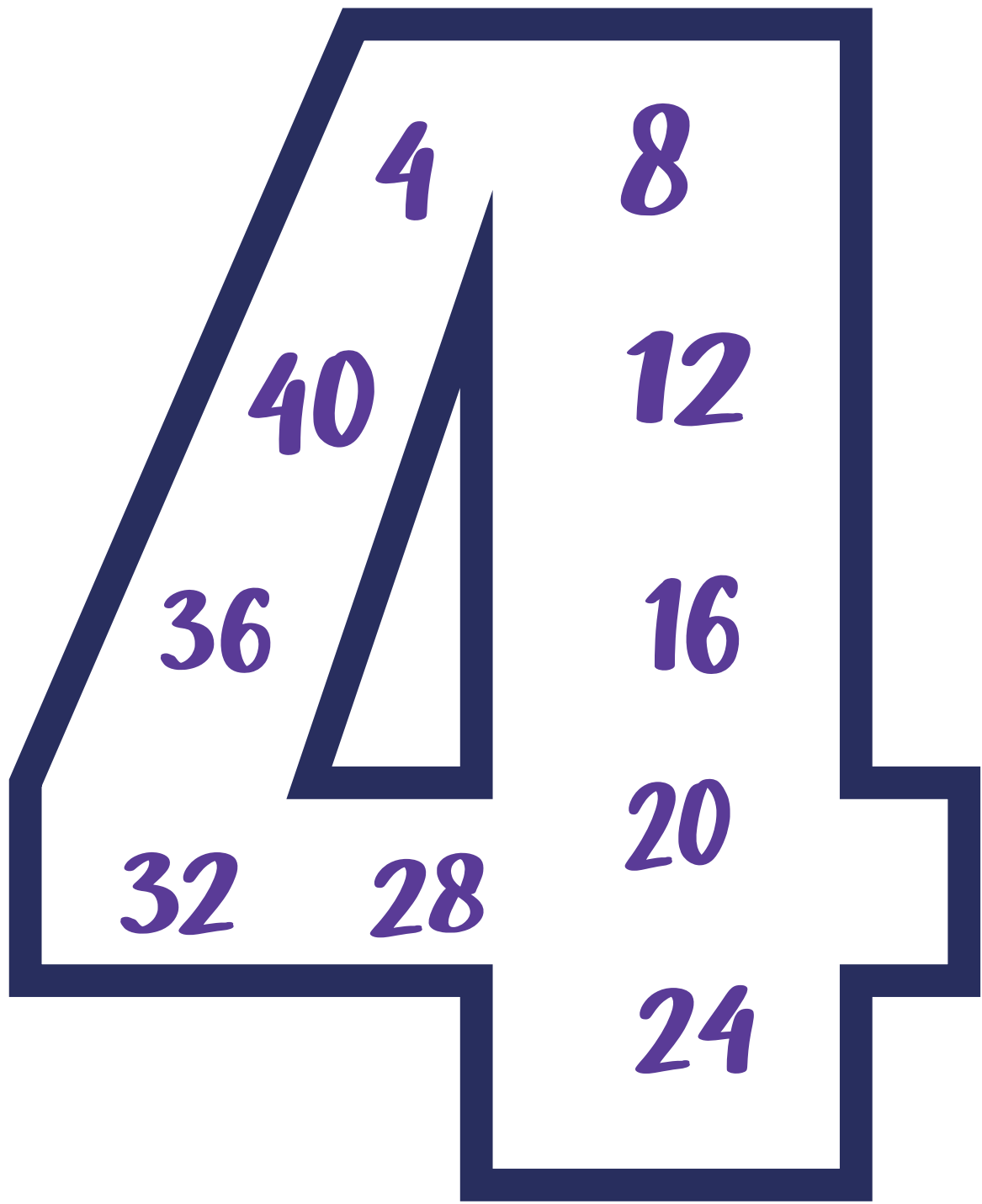
28  32  36 

40  44  48 

# PICTURING THE MATH

GROUP	COUNT BY SEQUENCE	MULTIPLICATION EQUATION
<p>If you have 2 boxes of donuts with 4 donuts in each box, how many donuts would you have?</p> 	4, 8	$2 \times 4 = 8$
<p>If you have 6 boxes of donuts with 4 donuts in each box, how many donuts would you have?</p> 	4, 8, 12, 16, 24	$6 \times 4 = 24$
<p>If you have 8 boxes of donuts with 4 donuts in each box, how many donuts would you have?</p> 		
<p>If you have 4 boxes of donuts with 4 donuts in each box, how many donuts would you have?</p> 		
<p>If you have 10 boxes of donuts with 4 donuts in each box, how many donuts would you have?</p> 		

# MULTIPLES OF 4





# VOCABULARY

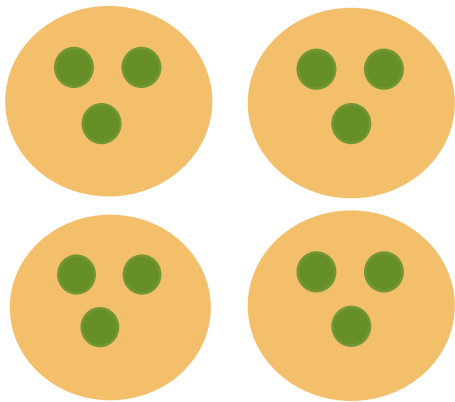


# COMMUTATIVE PROPERTY

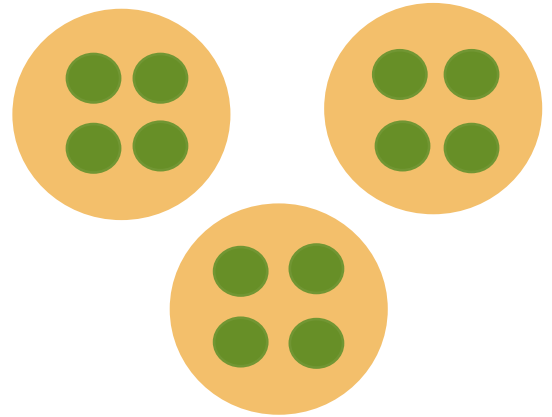
$$4 \times 3$$

=

$$3 \times 4$$



=



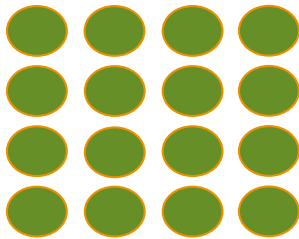
## MODEL THE FACTS

$$4 \times 5 = 5 \times 4$$

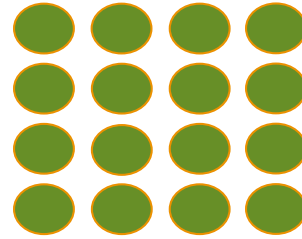
$$4 \times 1 = 1 \times 4$$

# DISTRIBUTIVE PROPER-

$$4 \times 8$$



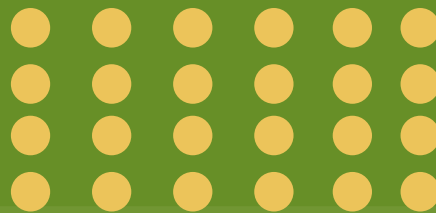
$$4 \times 4$$



$$4 \times 4$$

**MODEL THE FACTS**

$$4 \times 6 = ( \_ \times \_ ) + ( \_ \times \_ )$$



**There are other to ways to model this as well.**

# ASSOCIATIVE PROPER-

**4 x 2 x 3**

**4 x 6 or 3 x 8**

## MODEL THE FACTS

$$4 \times 1 \times 4 = \underline{\quad} \times \underline{\quad}$$

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

$$4 \times 2 \times 4 = \underline{\quad} \times \underline{\quad}$$

**These are examples. There are other answers.**

## FREE CHOICE

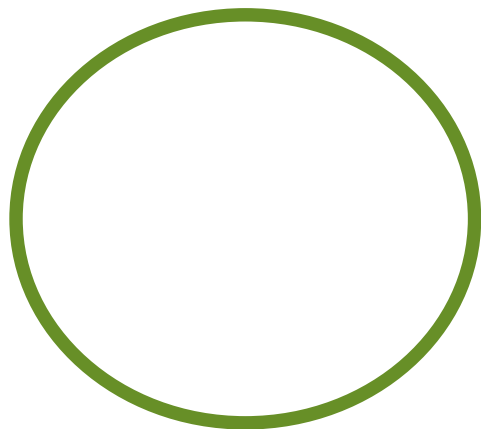
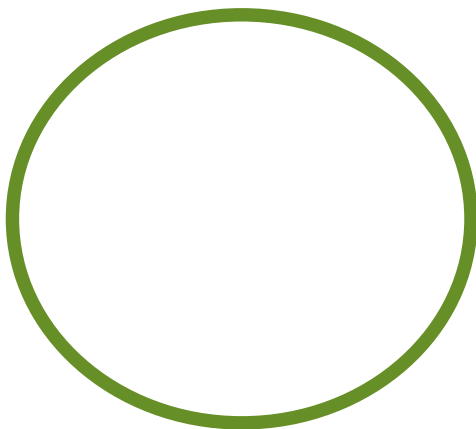
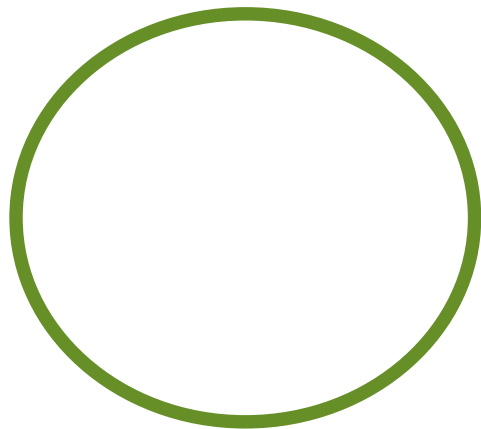
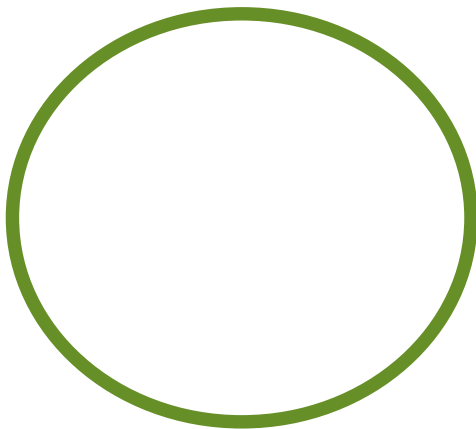
$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

# ZERO PROPERTY

When you multiply  
by zero you get zero...

**Zero groups of anything is zero**

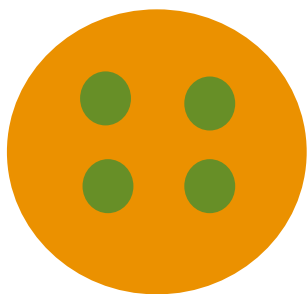
**4** groups of **0** is **0**



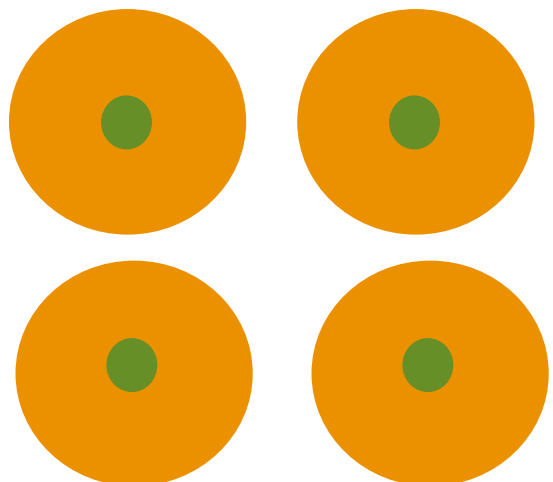
# IDENTITY PROPERTY

**When you multiply by 1...  
you get that number**

**1 group of  
4 is 4**

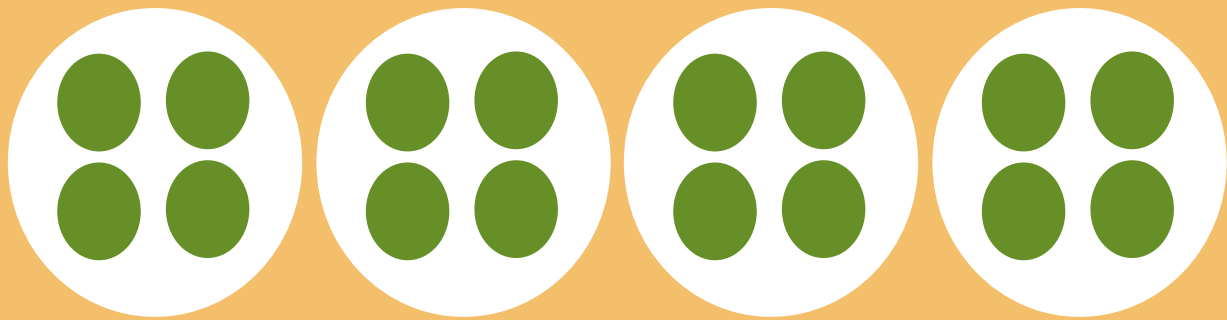


**4 groups  
of 1 is 4**



# Modeling Multiplication

**DRAW EQUAL GROUPS**



$$4 \times 4$$

$$4 \times 1$$

$$4 \times 2$$

$$4 \times 3$$

$$4 \times 4$$

# Modeling Multiplication

## DRAW EQUAL GROUPS

**4 X 5**

**4 X 6**

**4 X 7**

**4 X 8**

**4 X 9**

**4 X 10**

**FREE CHOICE**

**FREE CHOICE**

# Modeling Multiplication

## DRAW AN ARRAY

4 groups of 4

$$4 \times 4 = ?$$

●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

## DRAW AN ARRAY

$$4 \times 1$$

$$4 \times 2$$

$$4 \times 3$$

$$4 \times 4$$



# Modeling Multiplication

## **DRAW AN ARRAY**

**4 x 5**

**4 x 6**

**4 x 7**

**4 x 8**

**4 x 9**

**4 x 10**

**FREE CHOICE**

**FREE CHOICE**

# Multiplication Strategies:

## REPEATED ADDITION

4 groups of 4

$$4 + 4 + 4 + 4 = 16$$



$$4 \times 4 = 16$$

## MODEL THE REPEATED ADDITION SENTENCE

$$4 \times 1$$

$$1 + 1 + 1 + 1$$

$$4 \times 3$$

$$3 + 3 + 3 + 3$$

$$4 \times 2$$

$$2 + 2 + 2 + 2$$

$$4 \times 4$$

$$4 + 4 + 4 + 4$$

# Multiplication Strategies:

## REPEATED ADDITION

$$4 \times 5$$

$$5 + 5 + 5 + 5$$

$$4 \times 7$$

$$7 + 7 + 7 + 7$$

$$4 \times 9$$

$$9 + 9 + 9 + 9$$

**FREE CHOICE**

$$4 \times 6$$

$$6 + 6 + 6 + 6$$

$$4 \times 8$$

$$8 + 8 + 8 + 8$$

$$4 \times 10$$

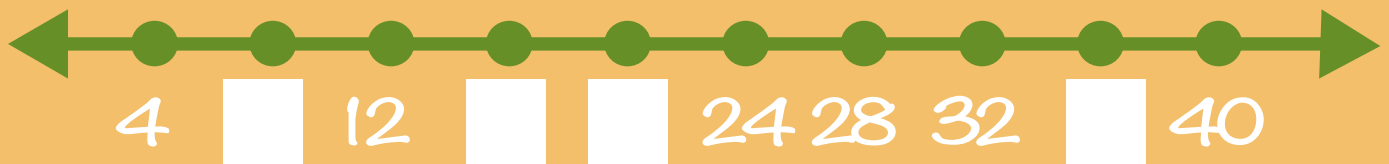
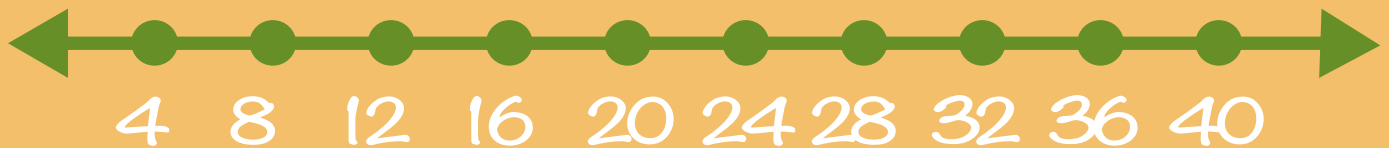
$$10 + 10 + 10 + 10$$

**FREE CHOICE**

# Modeling Multiplication

## SKIP COUNTING

DRAW ON A NUMBER LINE



FILL IN THE MISSING NUMBERS



# Modeling Multiplication

## SKIP COUNTING

FILL IN THE MISSING NUMBERS

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

FILL IN THE MISSING NUMBERS

	8		16	20		28		36	
--	---	--	----	----	--	----	--	----	--

FILL IN THE MISSING NUMBERS

	8		16		24		32		40
--	---	--	----	--	----	--	----	--	----

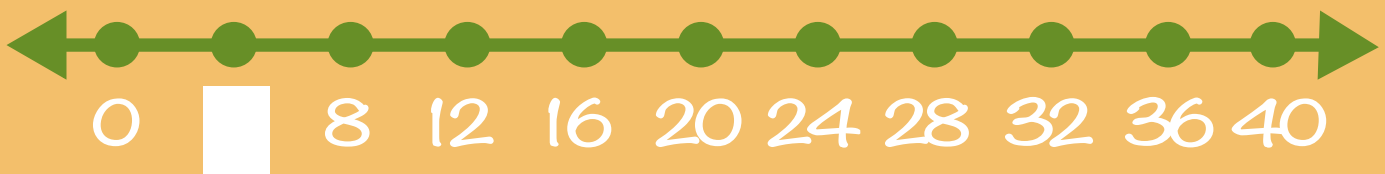
FILL IN THE MISSING NUMBERS

4		12		20		28		36	
---	--	----	--	----	--	----	--	----	--

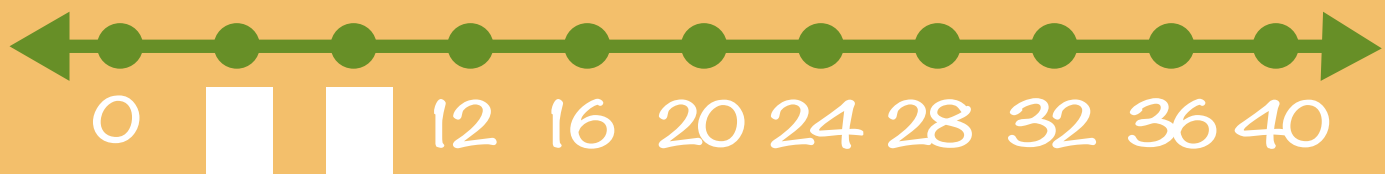
# Modeling Multiplication

## SKIP COUNTING

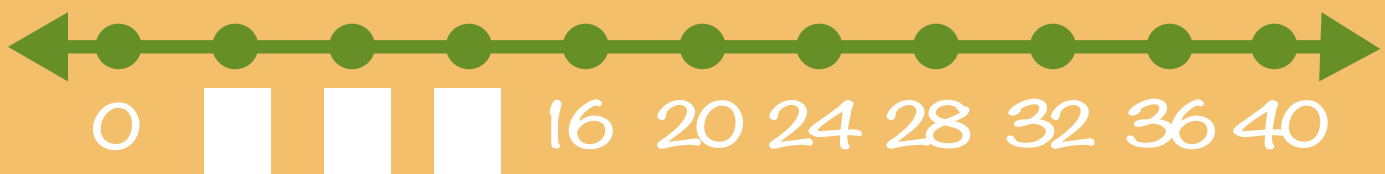
FILL IN THE MISSING NUMBERS. MODEL  $4 \times 1$  ON THE NUMBER LINE



FILL IN THE MISSING NUMBERS. MODEL  $4 \times 2$  ON THE NUMBER LINE



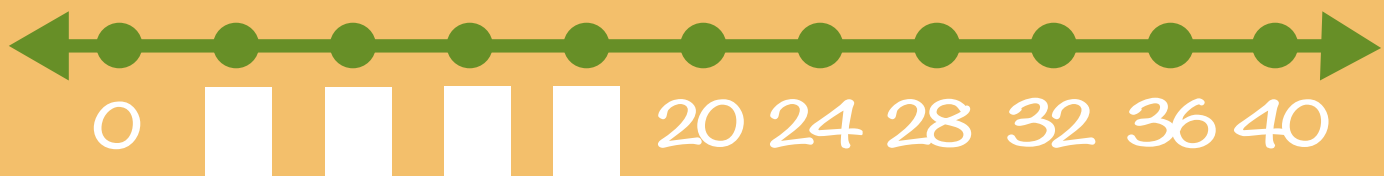
FILL IN THE MISSING NUMBERS. MODEL  $4 \times 3$  ON THE NUMBER LINE



# Modeling Multiplication

## SKIP COUNTING

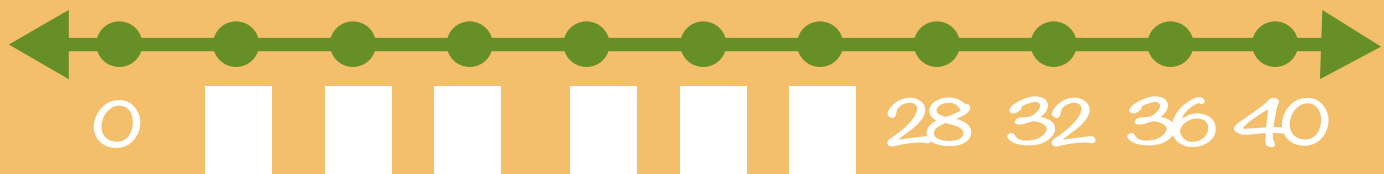
FILL IN THE MISSING NUMBERS. MODEL  $4 \times 4$  ON THE NUMBER LINE



FILL IN THE MISSING NUMBERS. MODEL  $4 \times 5$  ON THE NUMBER LINE



FILL IN THE MISSING NUMBERS. MODEL  $4 \times 6$  ON THE NUMBER LINE



FILL IN THE MISSING NUMBERS. MODEL  $4 \times 7$  ON THE NUMBER LINE



# Modeling Multiplication

## SKIP COUNTING

FILL IN THE MISSING NUMBERS. MODEL  $4 \times 8$  ON THE NUMBER LINE



FILL IN THE MISSING NUMBERS. MODEL  $4 \times 9$  ON THE NUMBER LINE



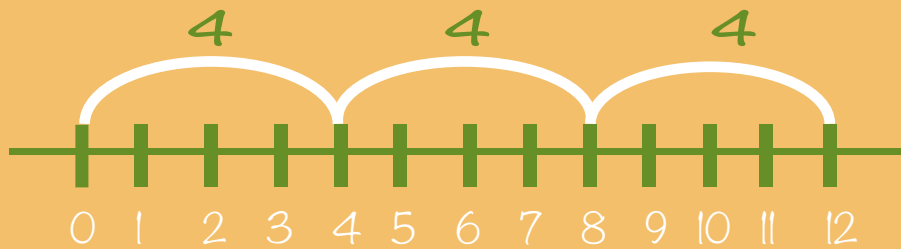
FILL IN THE MISSING NUMBERS. MODEL  $4 \times 10$  ON THE NUMBER LINE





# Multiplication Strategies:

## SKIP COUNTING ON THE NUMBER LINE



$$4 \times 3$$

SOLVE THE PROBLEM ON THE NUMBER LINE

$$4 \times 2$$



$$4 \times 3$$



$$4 \times 4$$

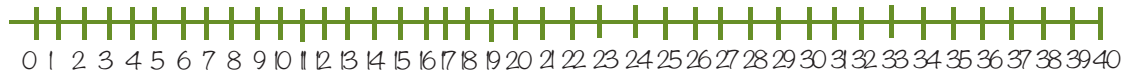


$$4 \times 5$$



# SOLVE THE PROBLEM ON THE NUMBER LINE

$4 \times 6$



$4 \times 7$



$4 \times 8$



$4 \times 9$



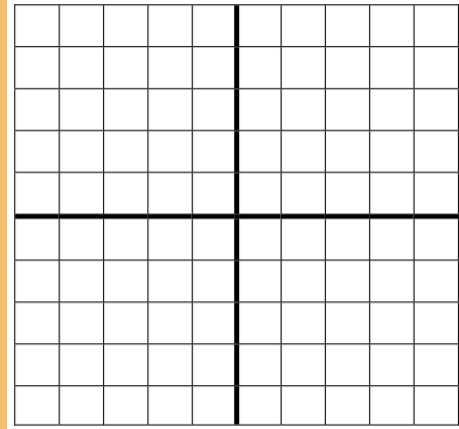
$4 \times 10$



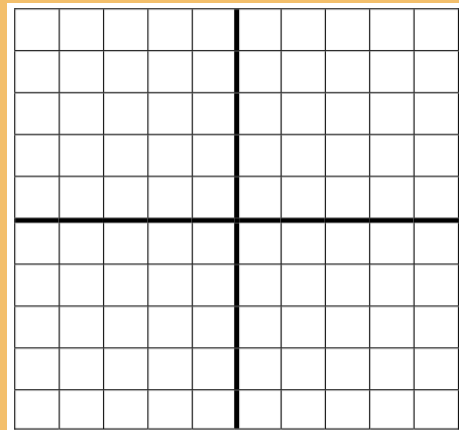
# Array Flashcards

**MODEL THE PROBLEMS ON THE GRIDS.**

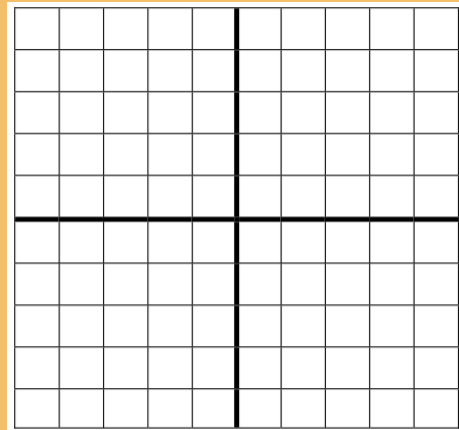
$$4 \times 1 = \underline{\quad}$$



$$4 \times 2 = \underline{\quad}$$



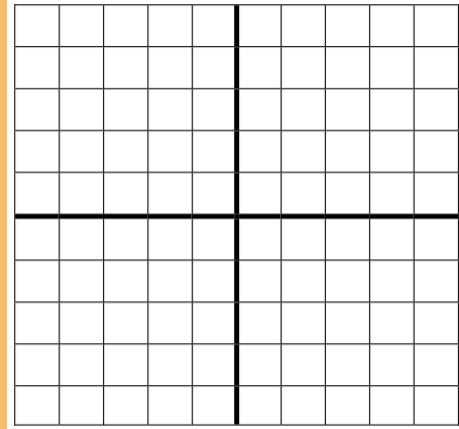
$$4 \times 3 = \underline{\quad}$$



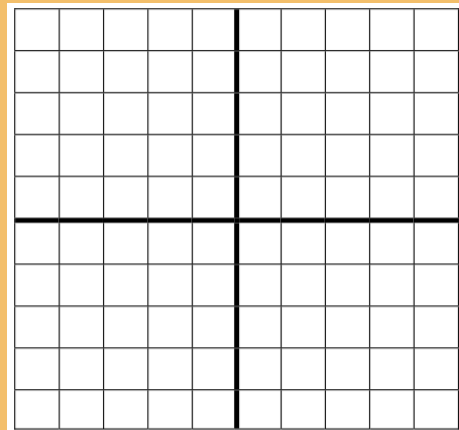
# Array Flashcards

**MODEL THE PROBLEMS ON THE GRIDS.**

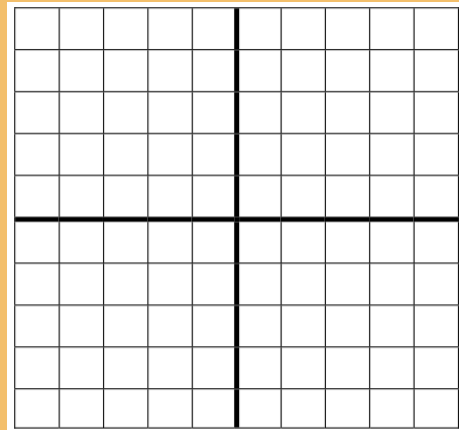
$$4 \times 4 = \underline{\quad}$$



$$4 \times 5 = \underline{\quad}$$



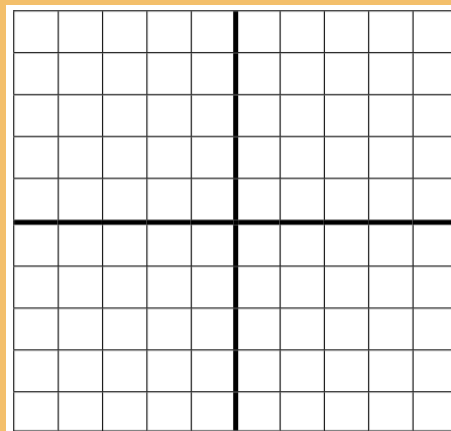
$$4 \times 6 = \underline{\quad}$$



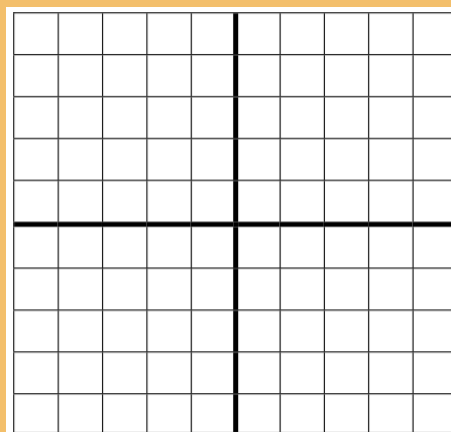
# Array Flashcards

**MODEL THE PROBLEMS ON THE GRIDS.**

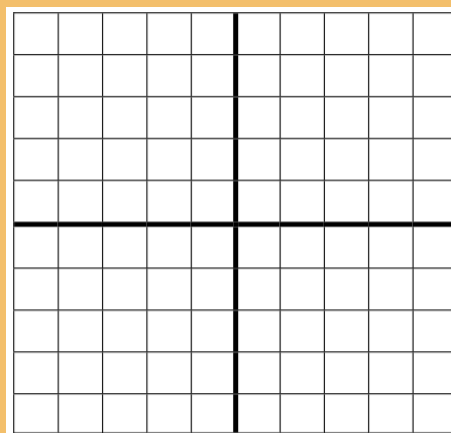
$$4 \times 7 = \underline{\quad}$$



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



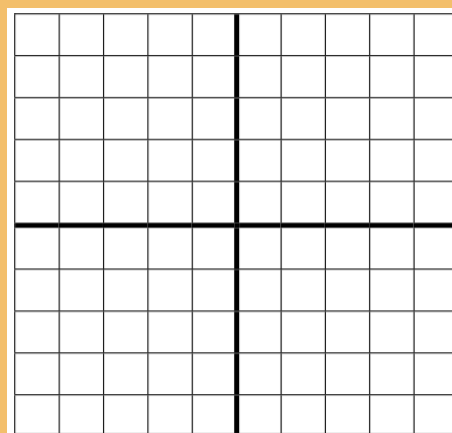
$$4 \times 9 = \underline{\quad}$$



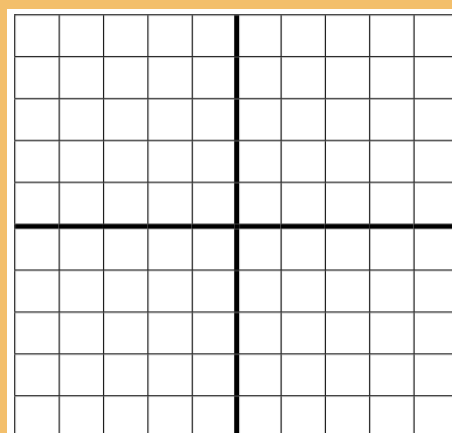
# Array Flashcards

**MODEL THE PROBLEMS ON THE GRIDS.**

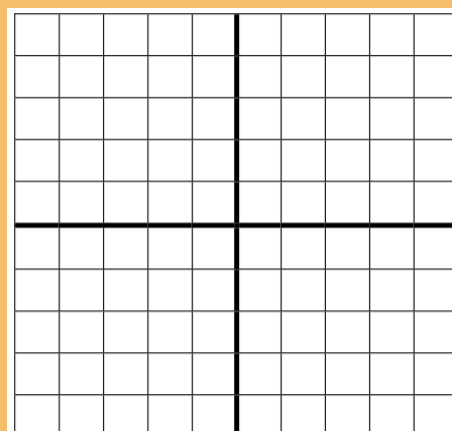
$$4 \times 10 = \underline{\quad}$$



**FREE CHOICE**



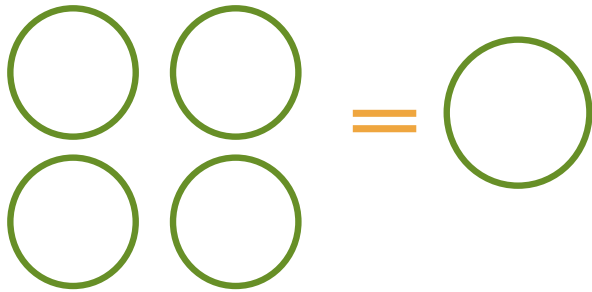
**FREE CHOICE**



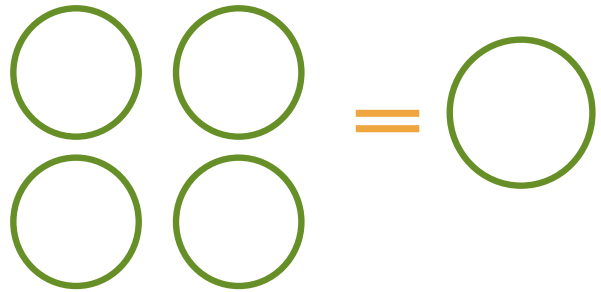
# Equal Group Flashcards

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

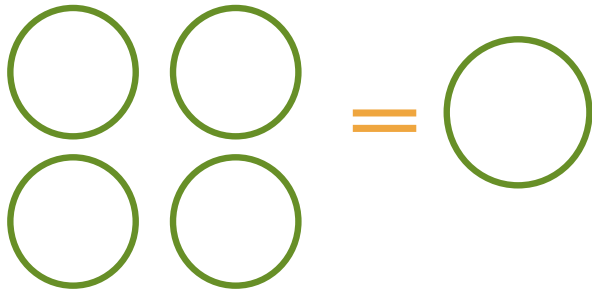
$$4 \times 0 = 0$$



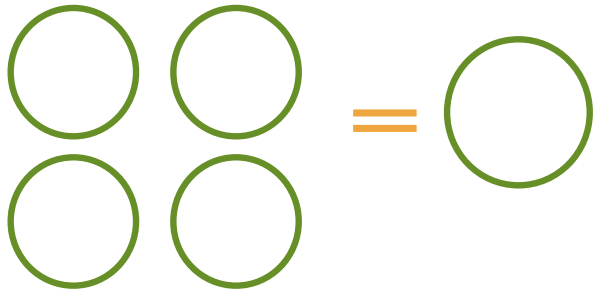
$$4 \times 1 = 4$$



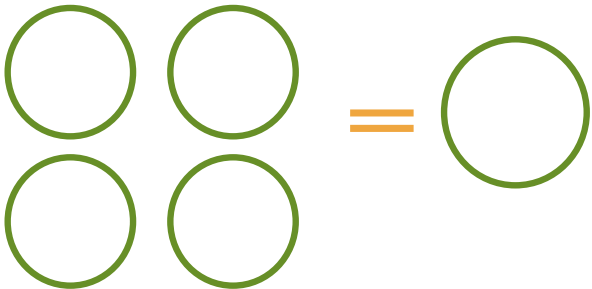
$$4 \times 2 = 8$$



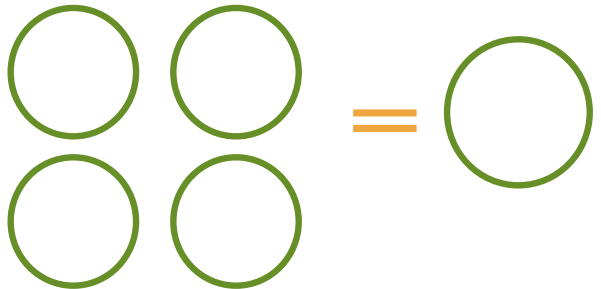
$$4 \times 3 = 12$$



$$4 \times 4 = 16$$



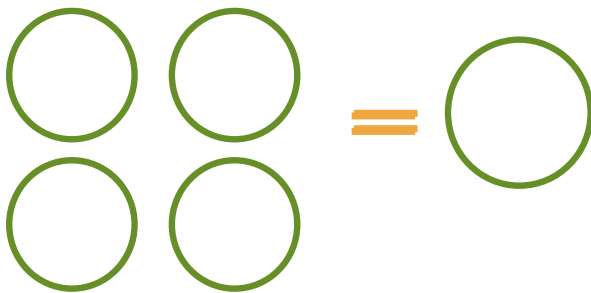
$$4 \times 5 = 20$$



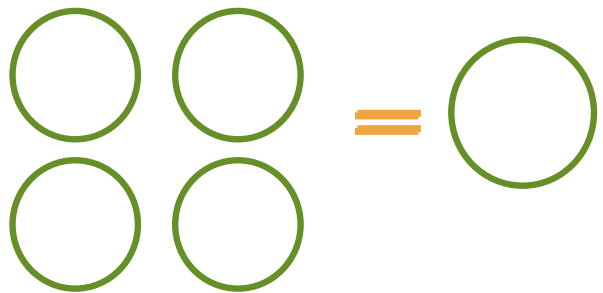
# Equal Group Flashcards

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

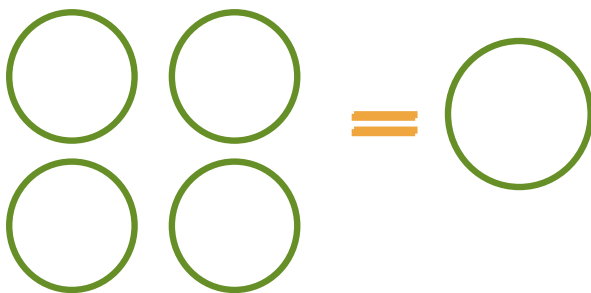
$$4 \times 6 = 24$$



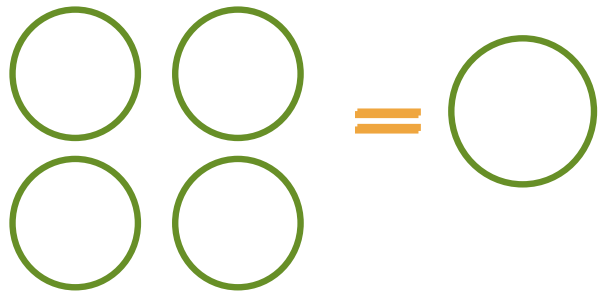
$$4 \times 7 = 28$$



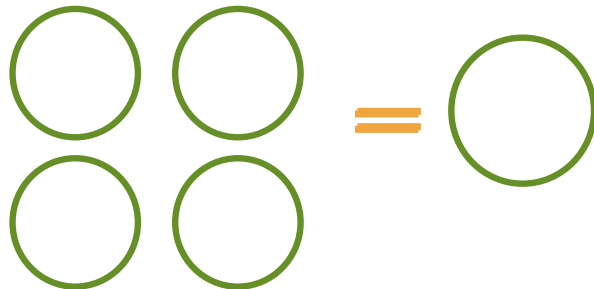
$$4 \times 8 = 32$$



$$4 \times 9 = 36$$



$$4 \times 10 = 40$$





# Regular Flashcards


$$4 \times 0$$


$$4 \times 1$$


$$4 \times 2$$


$$4 \times 3$$


$$4 \times 4$$


$$4 \times 5$$

# Regular Flashcards


$$4 \times 6$$


$$4 \times 7$$

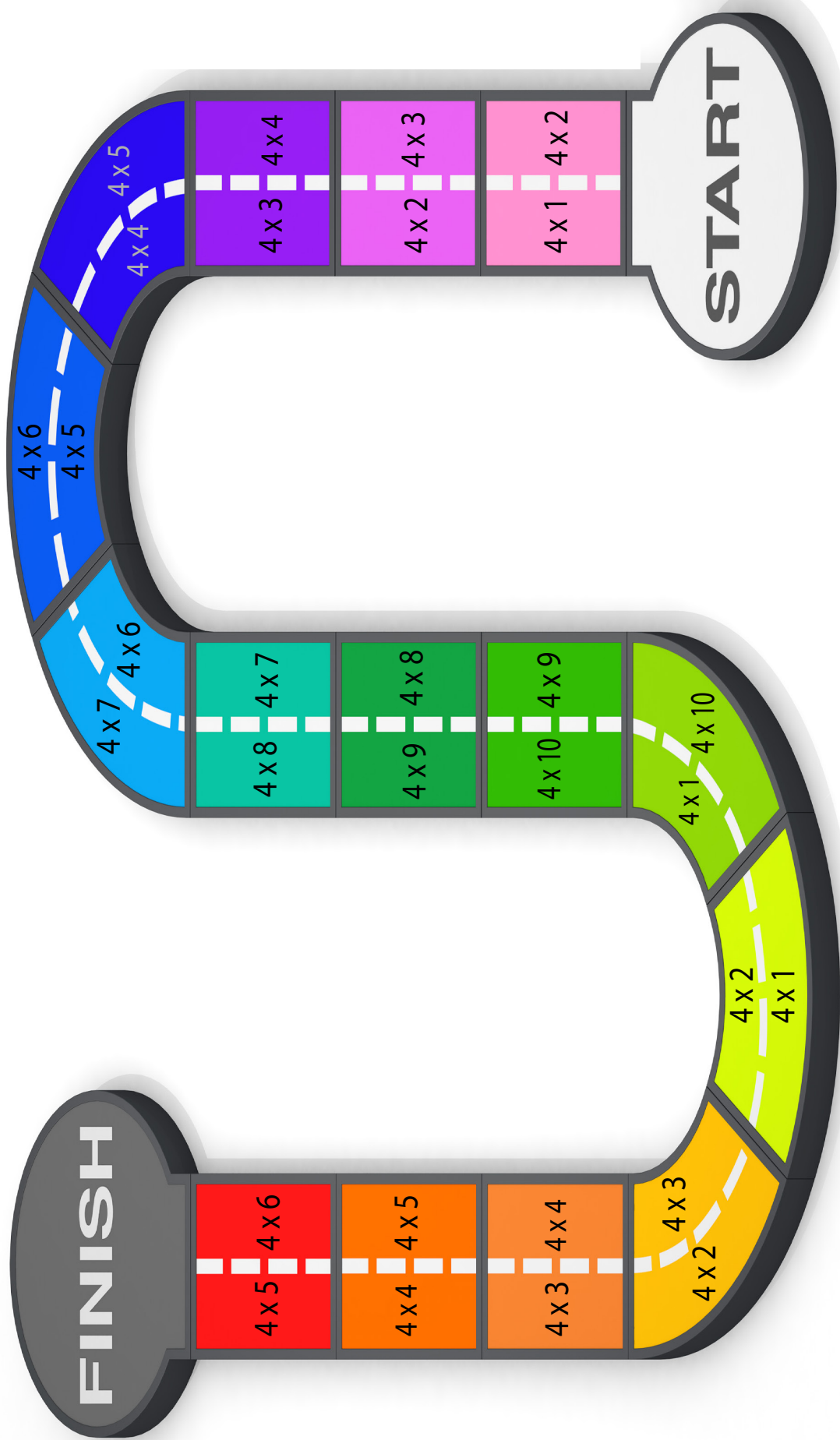

$$4 \times 8$$


$$4 \times 9$$


$$4 \times 10$$

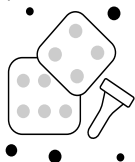
# MULTIPLICATION RACE

Directions: Play with a partner. Each player chooses a marker and a side. Decide who starts. Roll the die. Take turns moving. Player 1 says the product. Player 2 checks the answer using the bookmark. If it is correct, stay on the spot. If it is incorrect, move back one. Whoever reaches first wins.

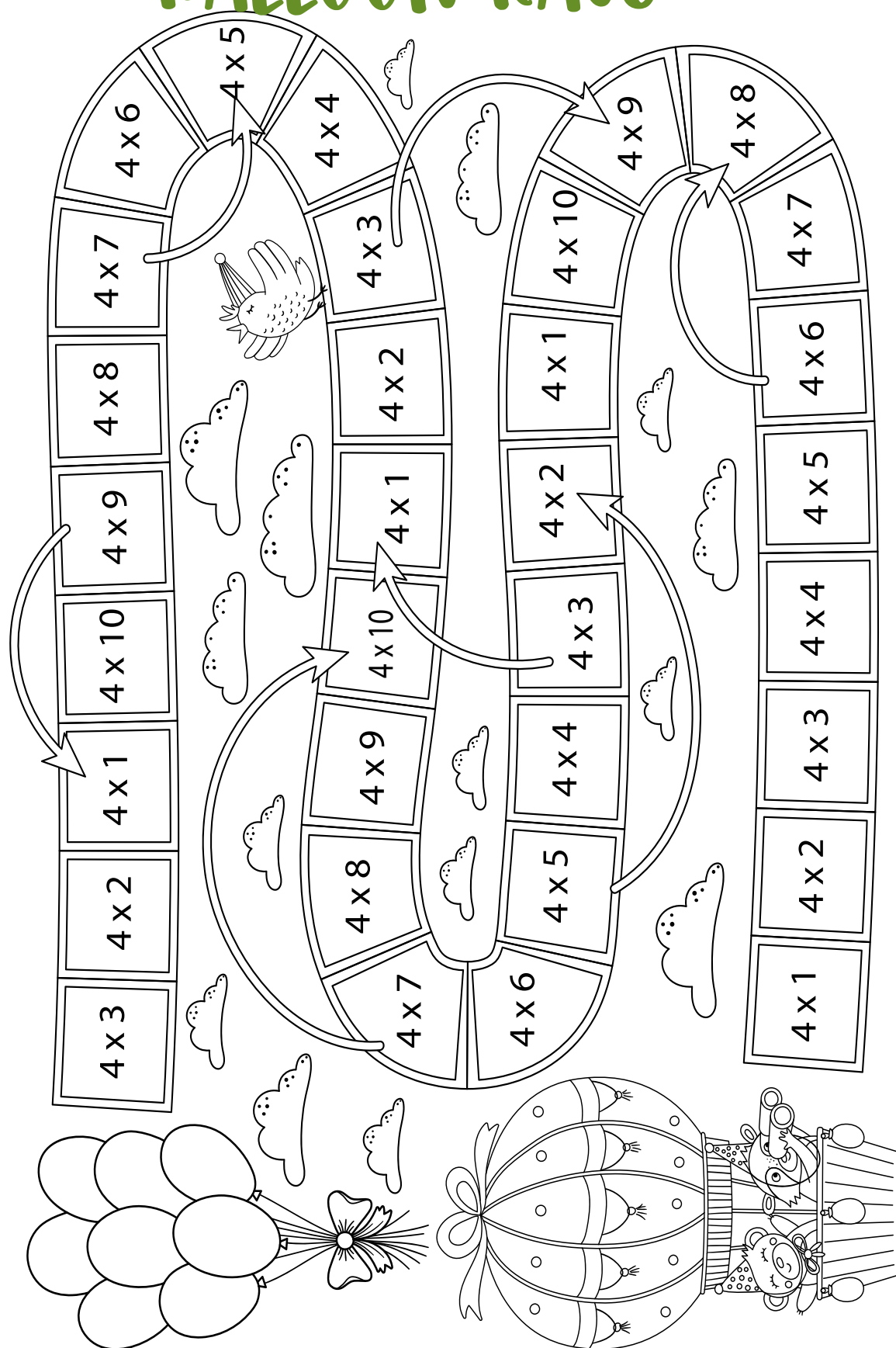




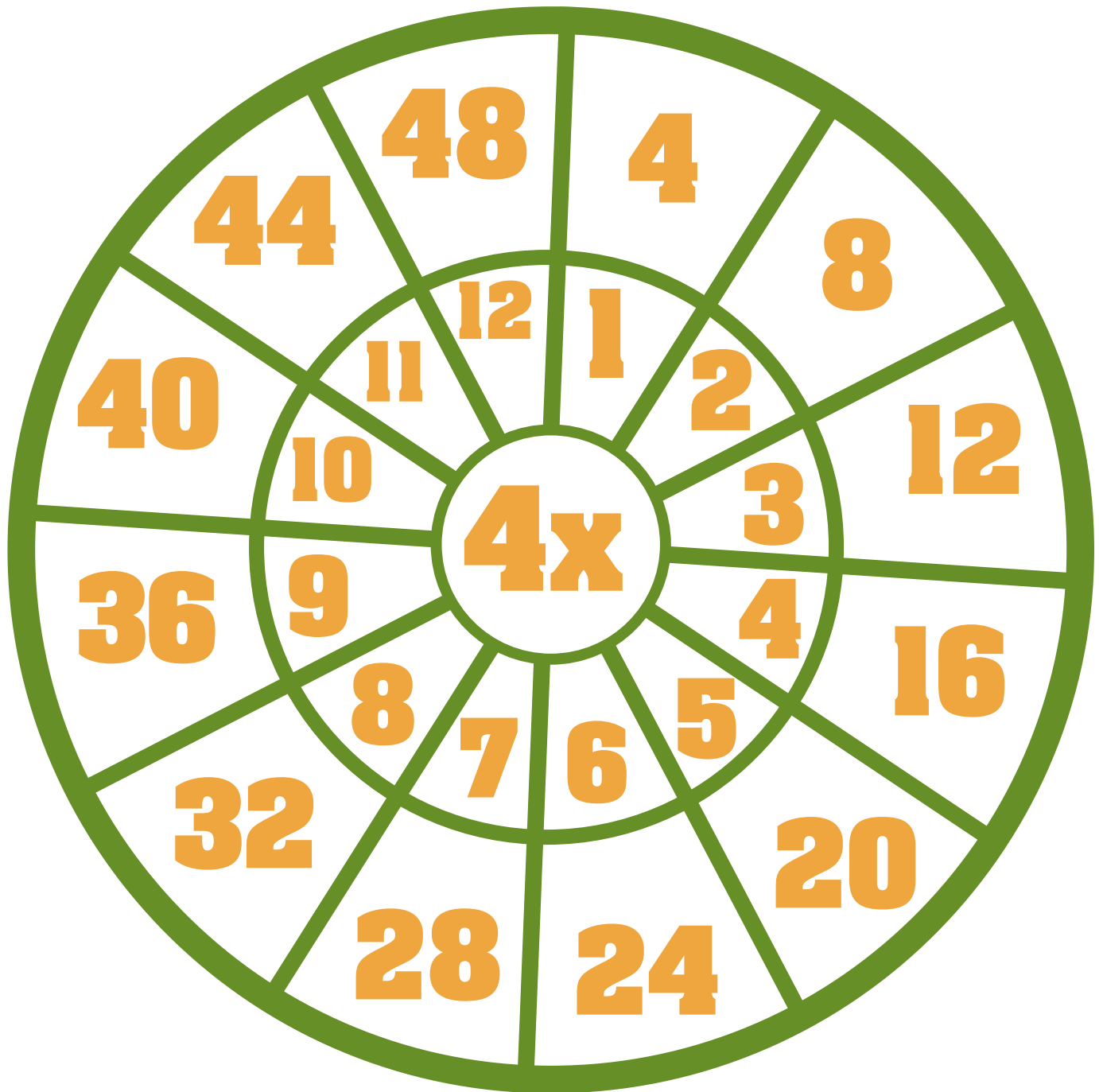
Help the animals get to the bunch of balloons



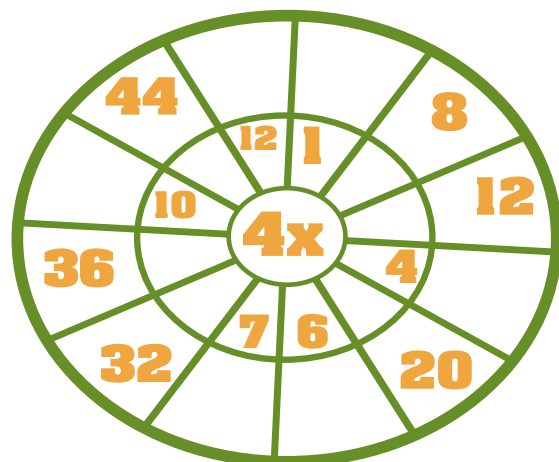
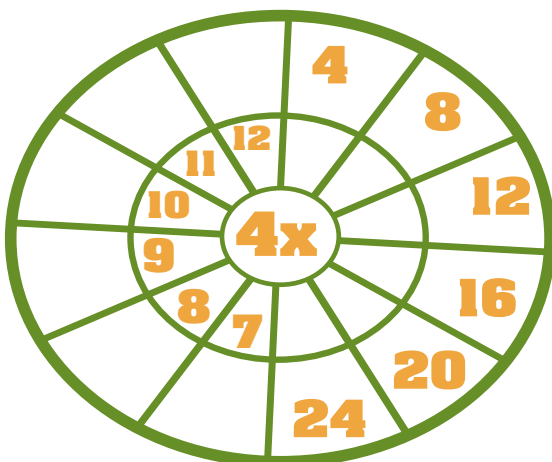
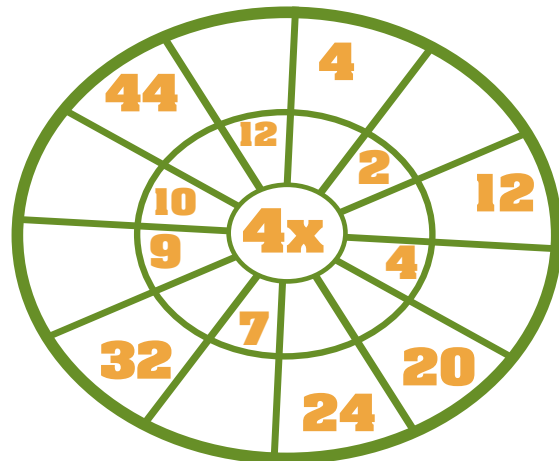
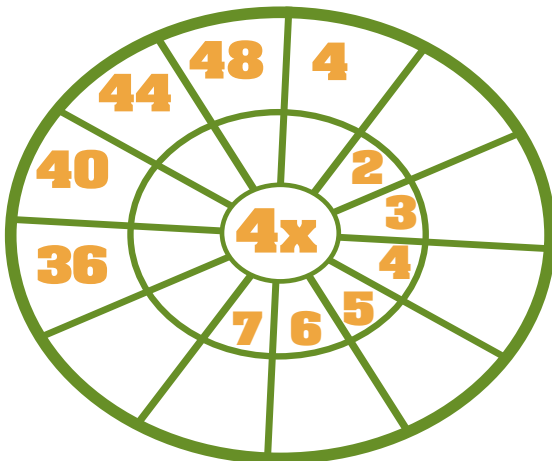
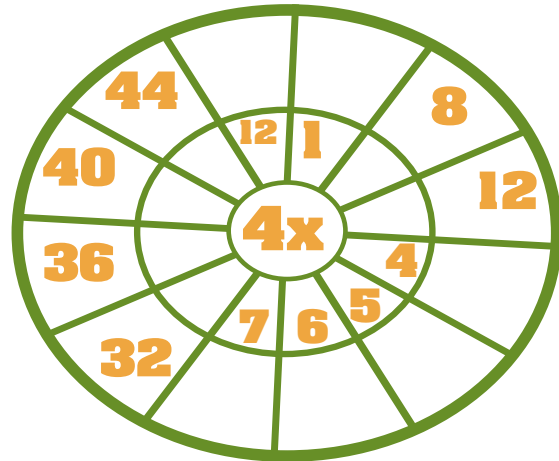
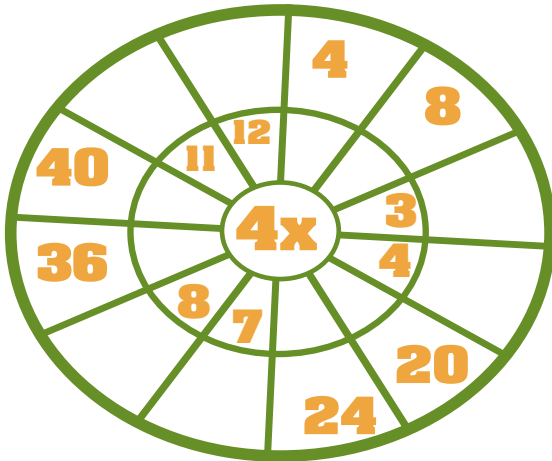
# BALLOON RACE



# MULTIPLICATION WHEELS



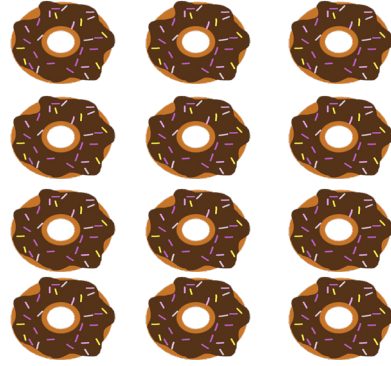
# MULTIPLICATION WHEELS



# PICTURE FACT FAMILY



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



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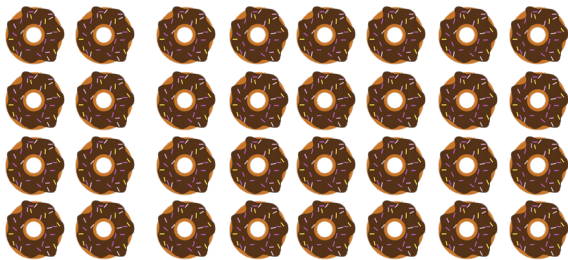
# PICTURE FACT FAMILY



$$\begin{array}{rcl} \underline{\hspace{2cm}} & \times & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \times & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \div & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \div & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{rcl} \underline{\hspace{2cm}} & \times & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \times & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \div & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \div & \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \end{array}$$




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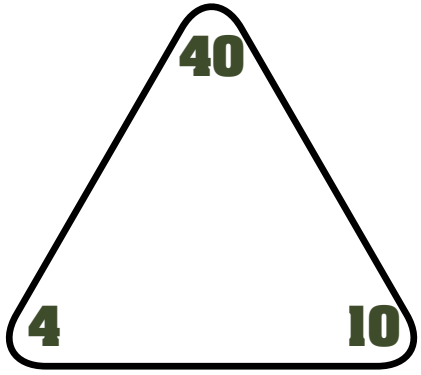
# PICTURE FACT FAMILY

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

## MAKE YOUR OWN

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

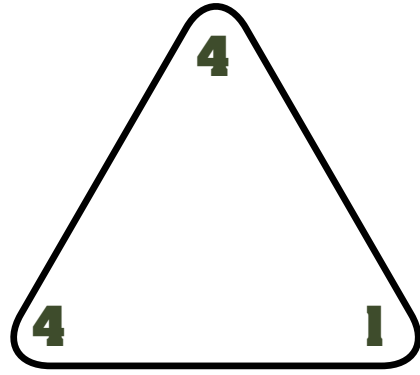
# TRIANGLE FACT FAMILY



40

4 10

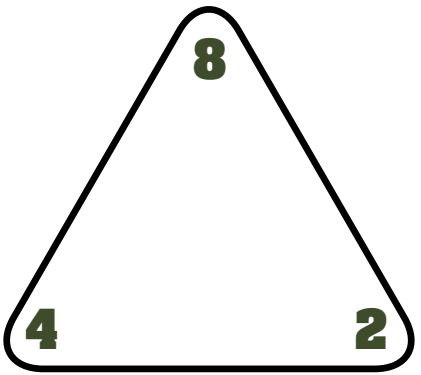
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4

4 1

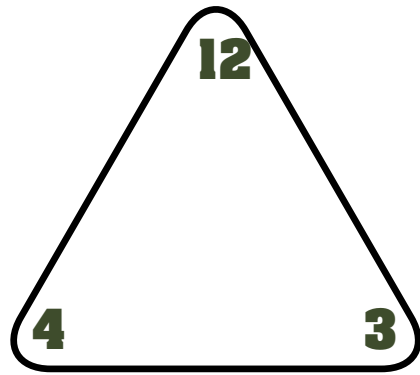
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8

4 2

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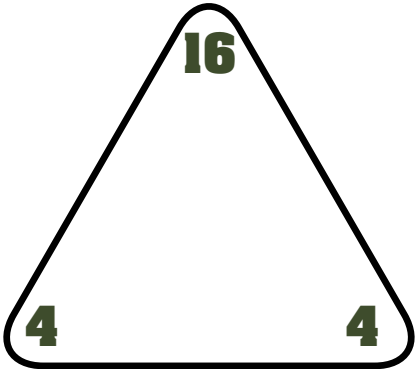


12

4 3

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# TRIANGLE FACT FAMILY

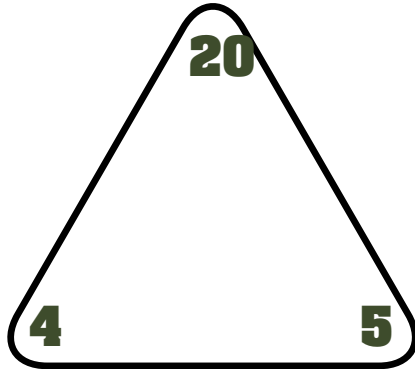


16

4

4

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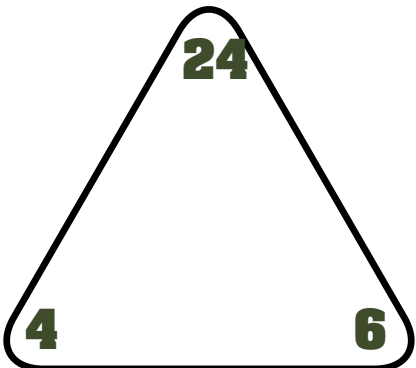


20

4

5

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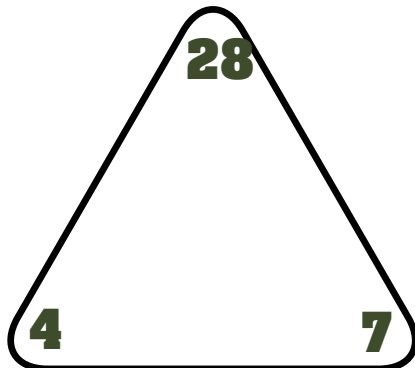


24

4

6

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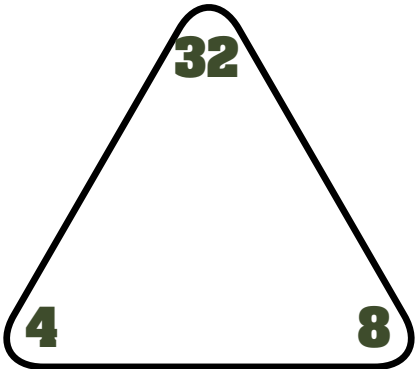
28

4

7

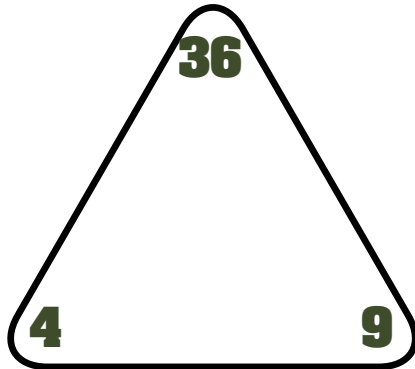
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# TRIANGLE FACT FAMILY



A triangle with the number 32 at the top vertex, 4 at the bottom-left vertex, and 8 at the bottom-right vertex.

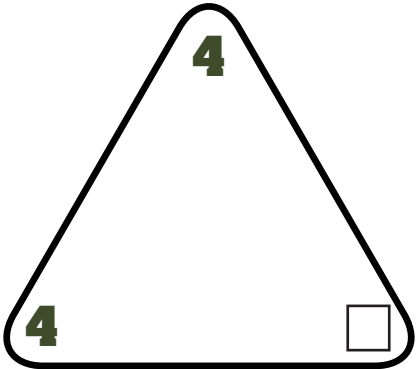
_____	<b>x</b>	_____	=	_____
_____	<b>x</b>	_____	=	_____
_____	<b>÷</b>	_____	=	_____
_____	<b>÷</b>	_____	=	_____



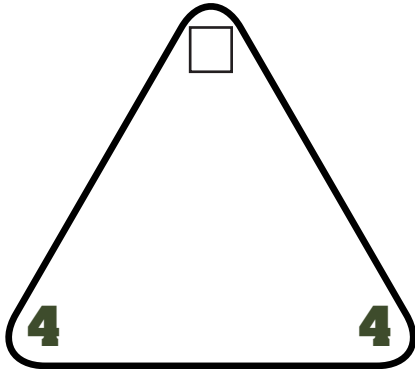
A triangle with the number 36 at the top vertex, 4 at the bottom-left vertex, and 9 at the bottom-right vertex.

_____	<b>x</b>	_____	=	_____
_____	<b>x</b>	_____	=	_____
_____	<b>÷</b>	_____	=	_____
_____	<b>÷</b>	_____	=	_____

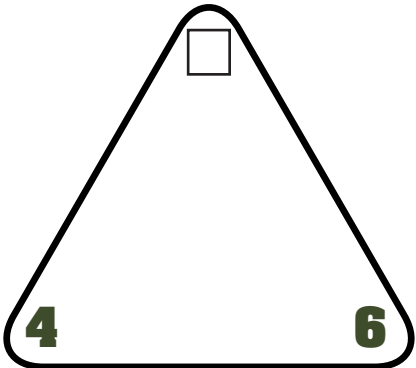
# TRIANGLE FACT FAMILY



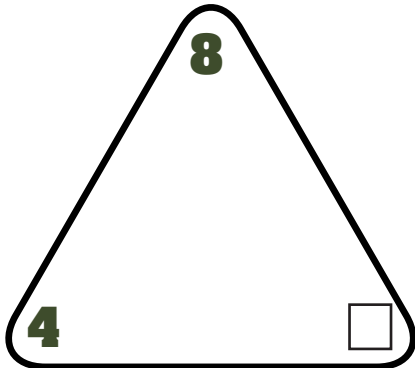
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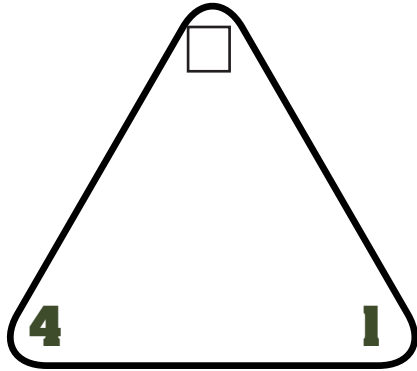


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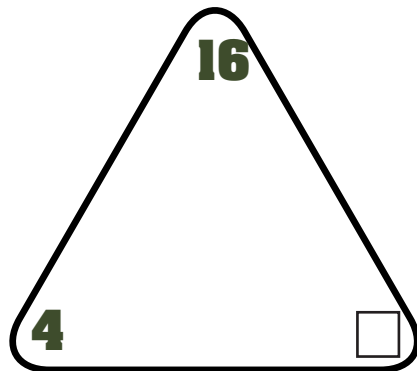


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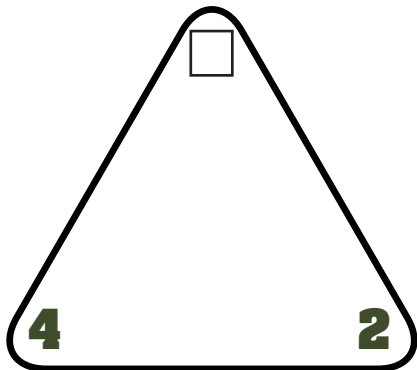
# TRIANGLE FACT FAMILY



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

# WORD PROBLEM

**MODEL YOUR THINKING AND SOLVE THE PROBLEM**

THE BAKERY HAD 4 ROWS OF DONUTS. THERE WERE 4 DONUTS IN EACH ROW. HOW MANY DONUTS DID THEY HAVE ALTOGETHER?

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

THE BAKERY HAD 4 BOXES WITH 8 DONUTS IN EACH BOX. HOW MANY DONUTS DID THEY HAVE?

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

THERE WERE 4 BAGS OF DONUTS IN THE BAKERY. EACH BAG HAD 3 DONUTS INSIDE. HOW MANY DONUTS WERE THERE ALTOGETHER?

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

THE BAKERY HAD 4 BOXES OF DONUTS WITH 10 DONUTS IN EACH BOX. HOW MANY DONUTS DID THEY HAVE ALTOGETHER?

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

# QUIZ

**WRITE A 4'S FACT IN EACH BOX. THEN FOLLOW THE INSTRUCTIONS IN EACH BOX TO MATCH THE FACT.**

**I CAN SKIP COUNT  
BY 4'S!**

**I CAN REPRESENT 4'S  
WITH EQUAL GROUPS!**

**I CAN REPRESENT 4'S  
WITH ARRAYS!**

**I CAN REPRESENT 4'S  
ON THE NUMBER LINE.**

**I CAN USE REPEATED  
ADDITION FOR MY 4'S.**

**MY STRATEGY FOR  
THINKING ABOUT 4'S IS...**



# CERTIFICATE

★ GREAT MATH WORK! ★

\_\_\_\_\_  
HAS SUCCESSFULLY PRACTICED THE  
4 TIMES TABLES!

**GREAT JOB!**

TEACHER: \_\_\_\_\_ DATE: \_\_\_\_\_

4

## Multiplication

$$\begin{aligned}4 \times 1 &= 4 \\4 \times 2 &= 8 \\4 \times 3 &= 12 \\4 \times 4 &= 16 \\4 \times 5 &= 20 \\4 \times 6 &= 24 \\4 \times 7 &= 28 \\4 \times 8 &= 32 \\4 \times 9 &= 36 \\4 \times 10 &= 40\end{aligned}$$

Hint: Doubles, 2's +  
Double 2's

4

## MULTIPLICATION

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## MULTIPLICATION

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