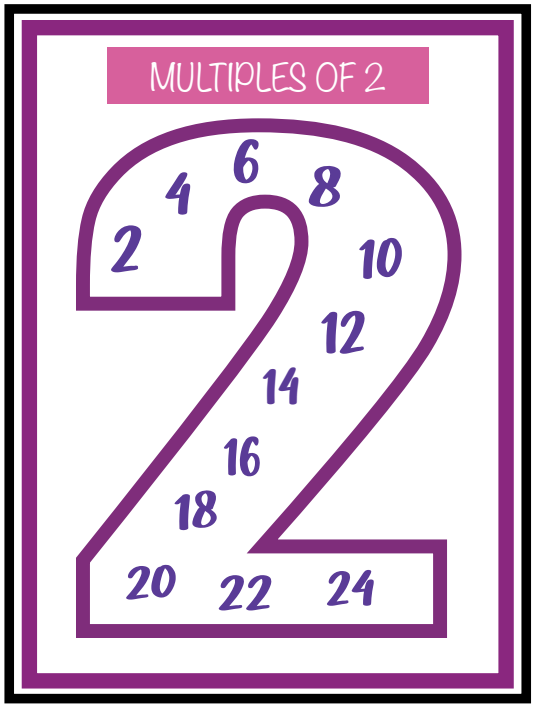
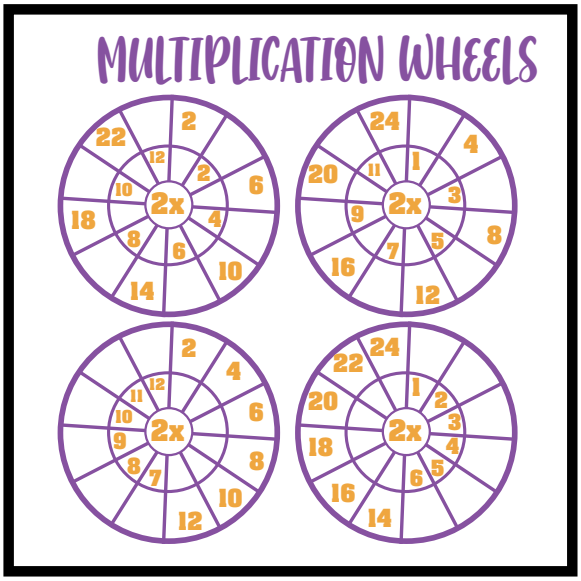
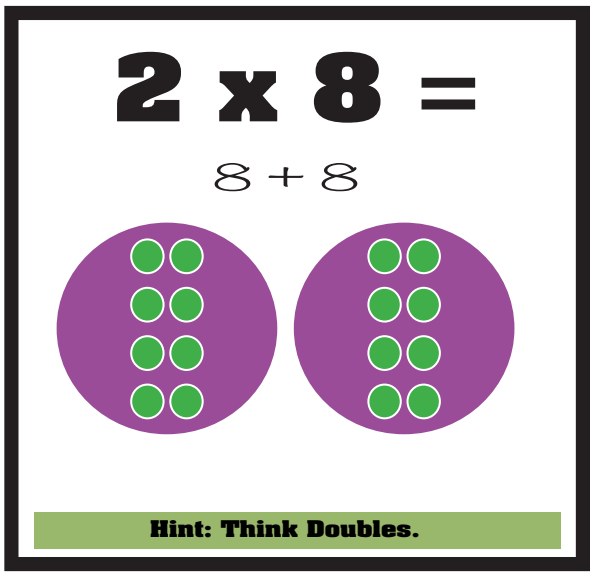
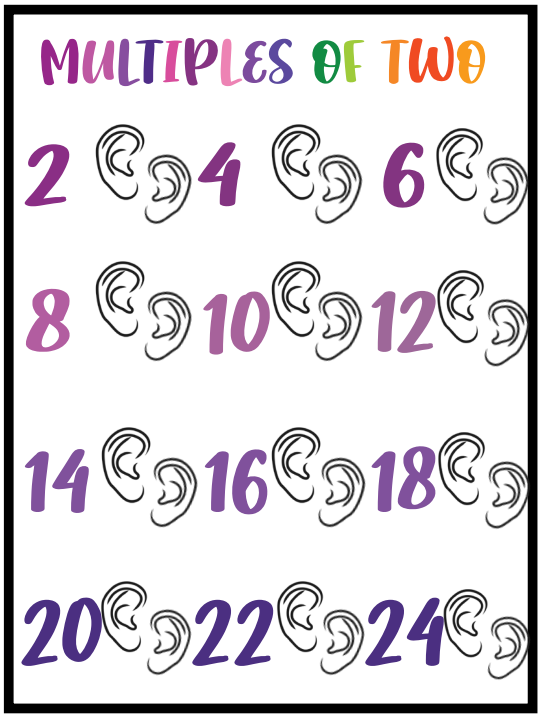
MULTIPLYING by 2

WORK BOOKLET









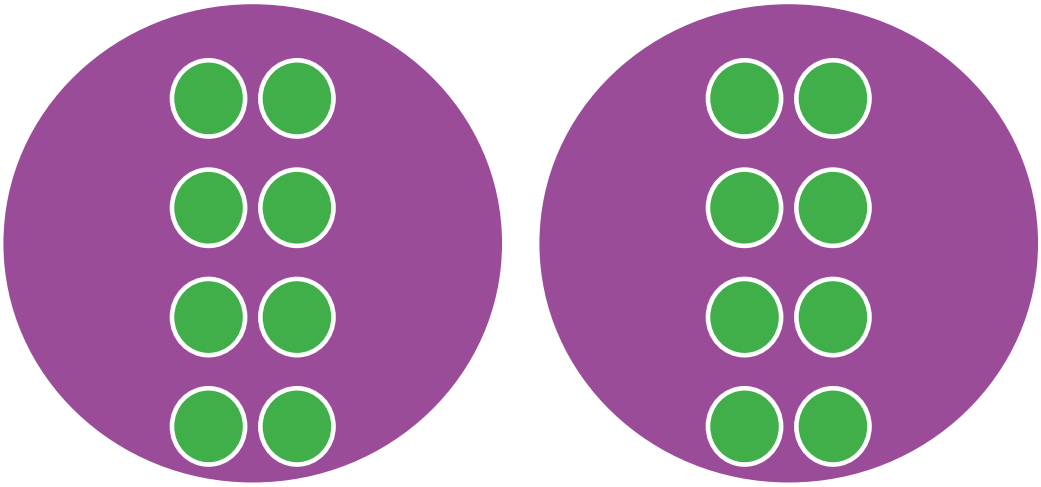
STRATEGY POSTER

When multiplying by 2

Double the Number!

2 x 8 =

8 + 8



Hint: Think Doubles.

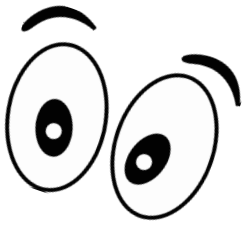
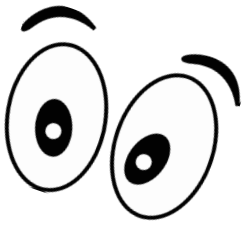
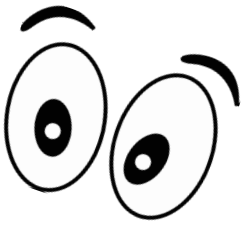
MULTIPLICATION

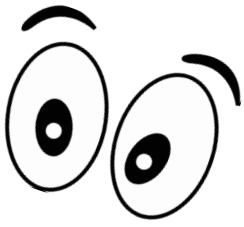
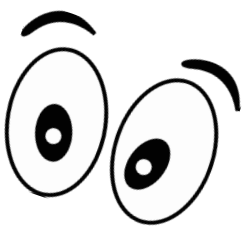
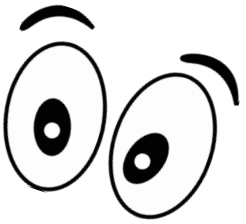
$$2 \times 4 = 8$$

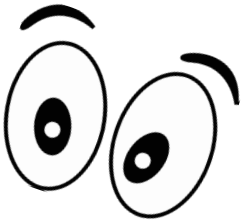
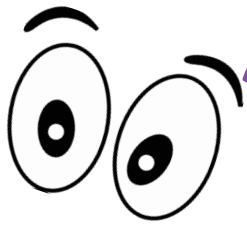
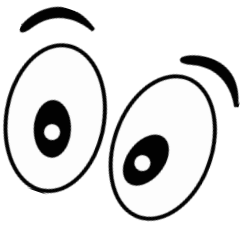


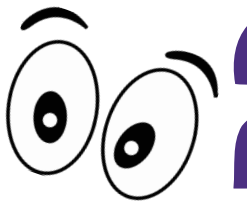
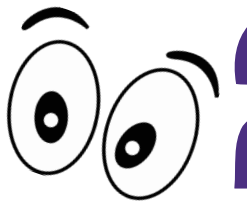
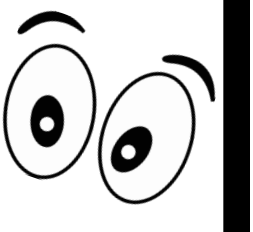
FACTOR FACTOR PRODUCT

MULTIPLES OF TWO

2  4  6 

8  10  12 

14  16  18 

20  22  24 

MULTIPLES OF TWO

2  4  6 

8  10  12 

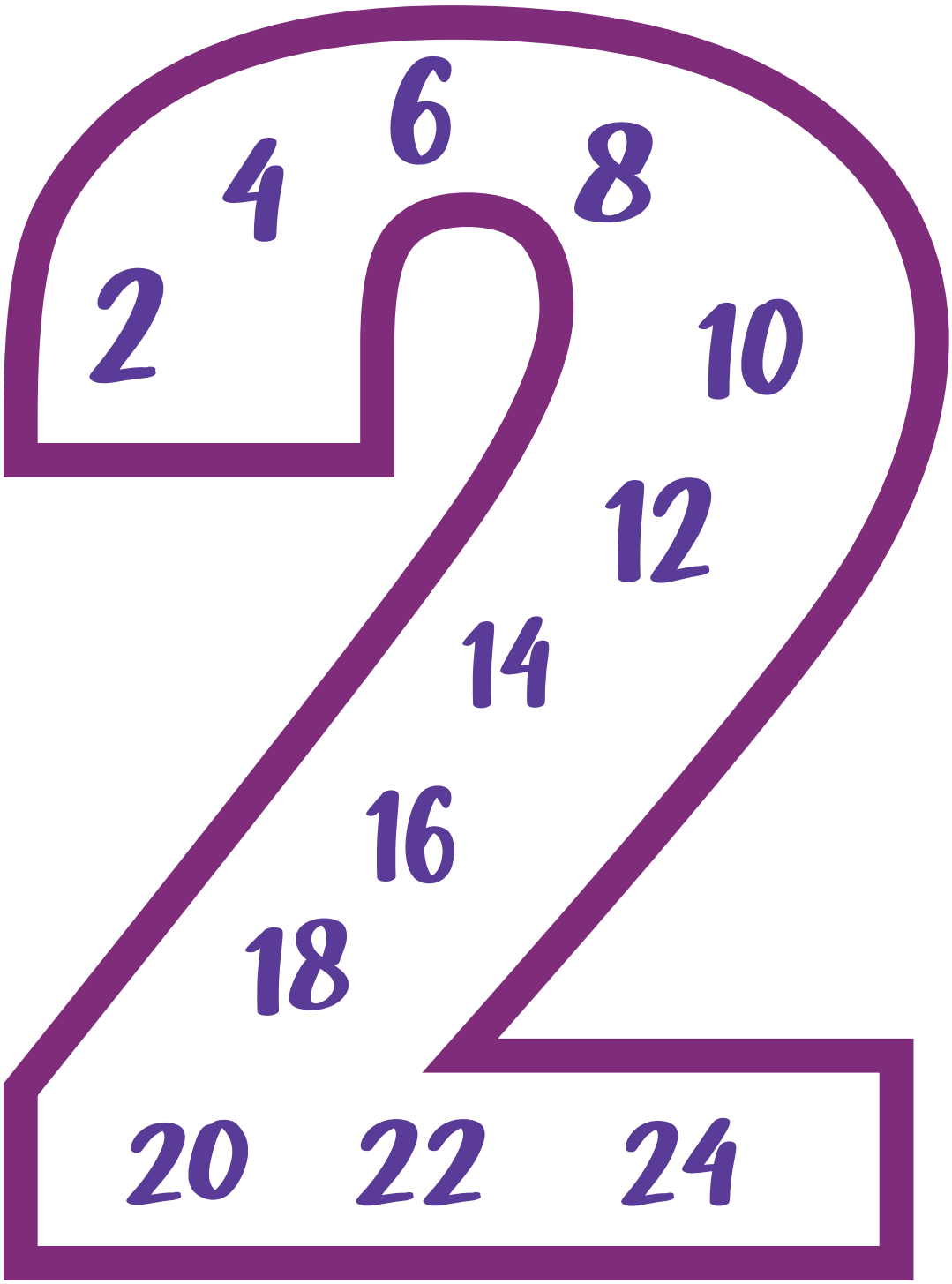
14  16  18 

20  22  24 

PICTURING THE MATH

GROUP	COUNT BY SEQUENCE	MULTIPLICATION EQUATION
If you have 1 plant with 2 cherries on each plant, how many cherries would you have? 	2	1 x 2 = 2
If you have 3 plants with 2 cherries on each plant, how many cherries would you have? 	2, 4, 6	3 x 2 = 6
If you have 4 plants with 2 cherries on each plant, how many cherries would you have? 		
If you have 2 plants with 2 cherries on each plant, how many cherries would you have? 		
If you have 5 plants with 2 cherries on each plant, how many cherries would you have? 		

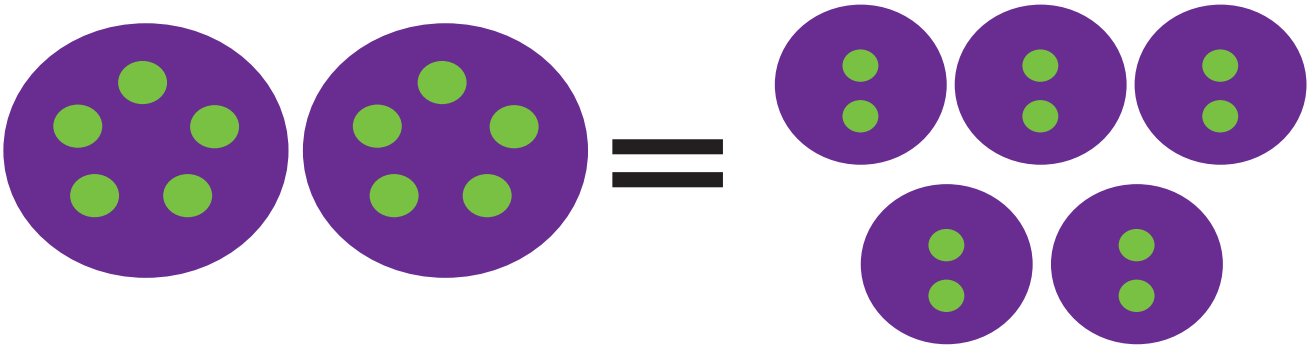
MULTIPLES OF 2



VOCABULARY

COMMUTATIVE PROPERTY

2 x 5 = 5 x 2



MODEL THE FACTS

2 x 3 = 3 x 2	2 x 1 = 1 x 2

DISTRIBUTIVE PROPERTY

2 x 5

2 x 3 | **2 x 2**

MODEL THE FACTS

2 x 7 = (_x_) + (_x_)

There are other to ways to model this as well.

ASSOCIATIVE PROPERTY

2 x 2 x 4

2 x 8 or 4 x 4

MODEL THE FACTS

2 x 3 x 2 = ___ x ___

2 x 5 x 2 = ___ x ___

2 x 4 x 2 = ___ x ___

These are examples. There are other answers.

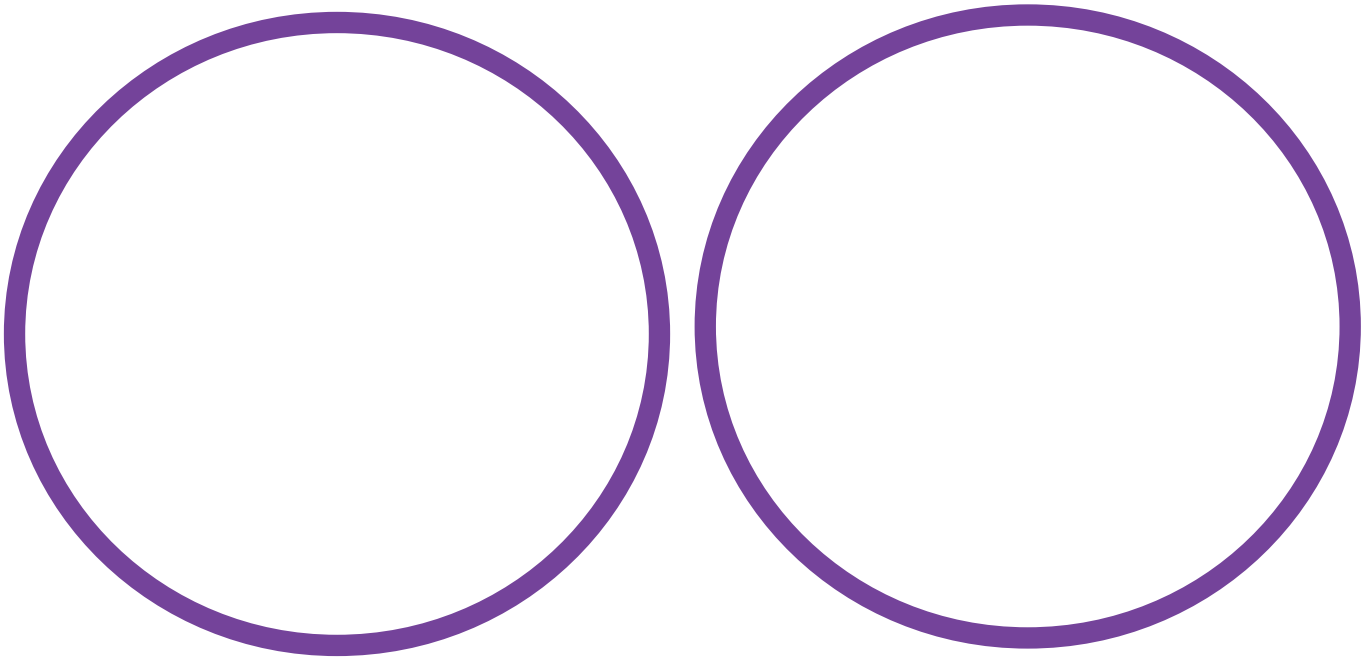
FREE CHOICE

___ x ___ x ___ = ___ x ___

ZERO PROPERTY

When you multiply by zero you get zero...

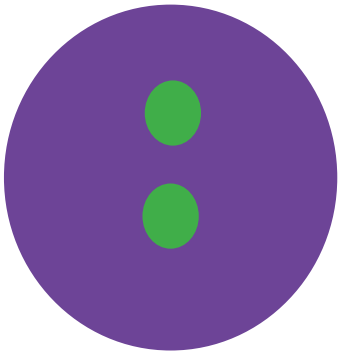
2 groups of **0** is **0**



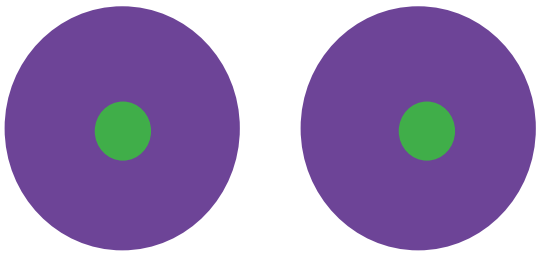
IDENTITY PROPERTY

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

1 group of 2 is 2

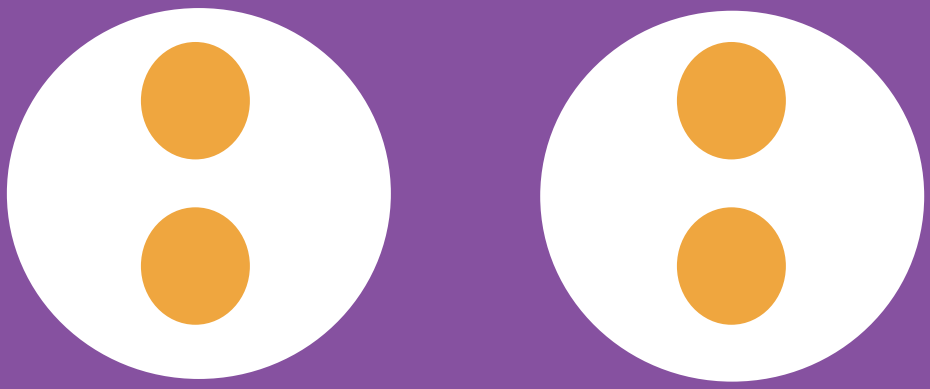


2 groups of 1 is 2



Modeling Multiplication:

DRAW EQUAL GROUPS



2 X 2

2 X 1	2 X 2

2 X 3	2 X 4

Modeling Multiplication:

DRAW EQUAL GROUPS

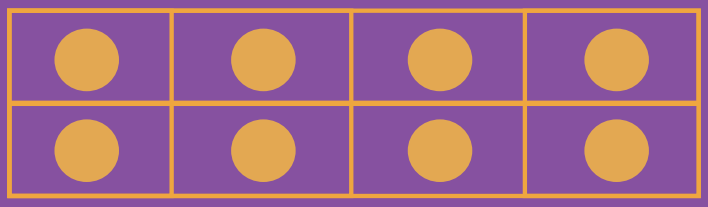
2 X 5	2 X 6
2 X 7	**2 X 8**
2 X 9	**2 X 10**
FREE CHOICE	**FREE CHOICE**

Modeling Multiplication:

DRAW AN ARRAY

2 groups of 4

2 x 4 = ?



DRAW AN ARRAY

2 x 1

2 x 2

2 x 3

2 x 4

Modeling Multiplication:

DRAW AN ARRAY

2 x 5	**2 x 6**
2 x 7	**2 x 8**
2 x 9	**2 x 10**
FREE CHOICE	**FREE CHOICE**

Multiplication Strategies:

REPEATED ADDITION

2 groups of 2

2 + 2 = 4

2 x 2 = 4

MODEL THE REPEATED ADDITION SENTENCE

2 x 1
1 + 1

2 x 2
2 + 2

2 x 3
3 + 3

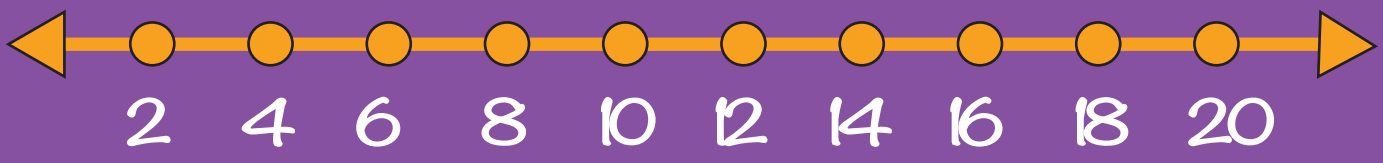
2 x 4
4 + 4

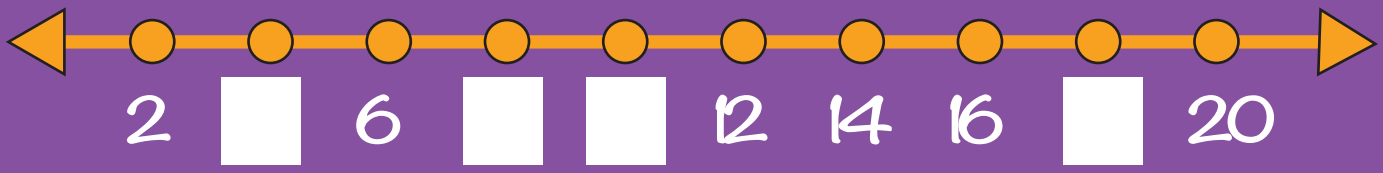
Multiplication Strategies:
REPEATED ADDITION

2 x 5 5 + 5	**2 x 6** 6 + 6
2 x 7 7 + 7	**2 x 8** 8 + 8
2 x 9 9 + 9	**2 x 10** 10 + 10
FREE CHOICE	**FREE CHOICE**

Modeling Multiplication:
SKIP COUNTING

DRAW ON A NUMBER LINE





FILL IN THE MISSING NUMBERS

2		6		10		14			20

		6		10		14			20

Modeling Multiplication:

SKIP COUNTING

FILL IN THE MISSING NUMBERS

2		6		10		14			20

FILL IN THE MISSING NUMBERS

	4		8	10		14		18	

FILL IN THE MISSING NUMBERS

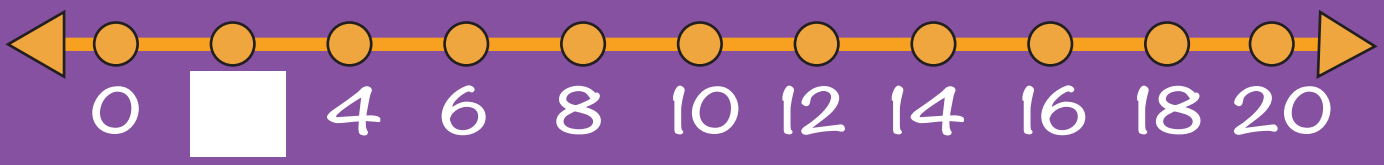
	4		8		12		16		20

FILL IN THE MISSING NUMBERS

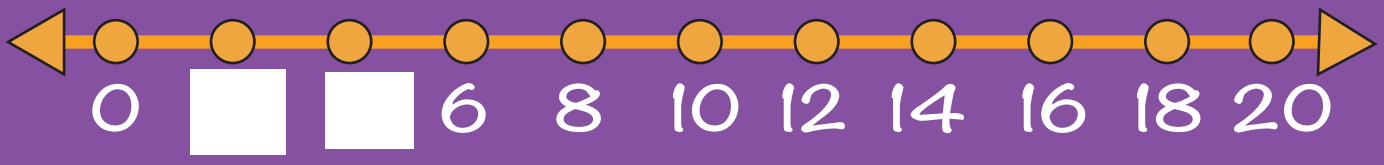
2		6		10		14		18	

Multiplication Strategies:
SKIP COUNTING

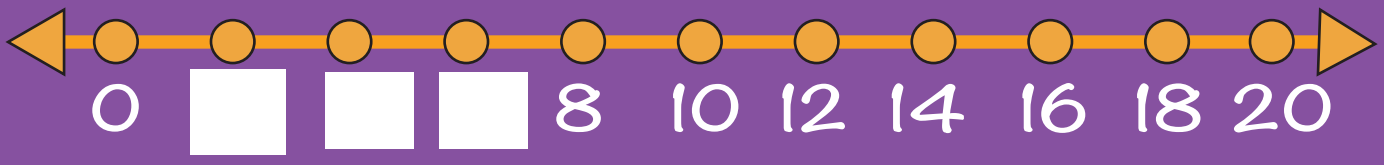
FILL IN THE MISSING NUMBERS. MODEL 2 x 1 ON THE NUMBER LINE.



FILL IN THE MISSING NUMBERS. MODEL 2 x 2 ON THE NUMBER LINE.



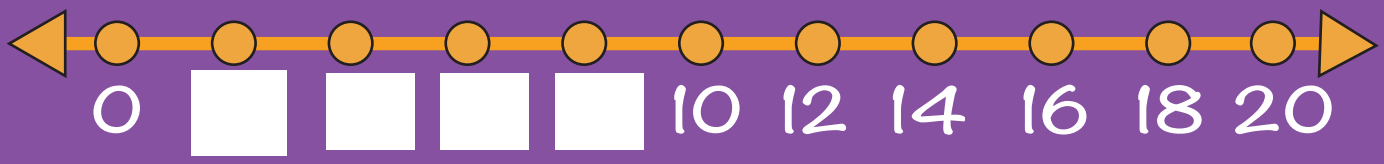
FILL IN THE MISSING NUMBERS. MODEL 2 x 3 ON THE NUMBER LINE.



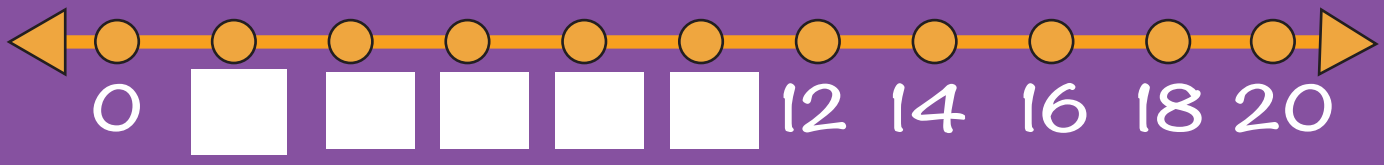
Multiplication Strategies:

SKIP COUNTING

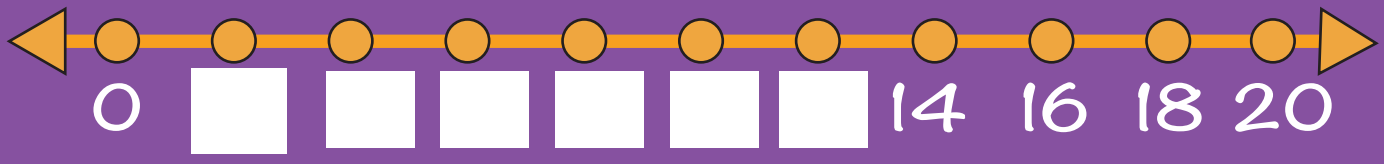
FILL IN THE MISSING NUMBERS. MODEL 2 x 4 ON THE NUMBER LINE.



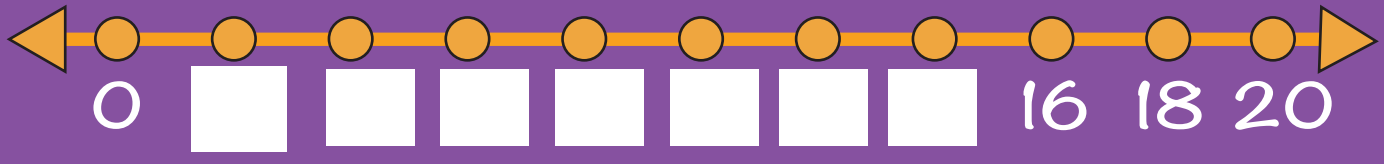
FILL IN THE MISSING NUMBERS. MODEL 2 x 5 ON THE NUMBER LINE.



FILL IN THE MISSING NUMBERS. MODEL 2 x 6 ON THE NUMBER LINE.

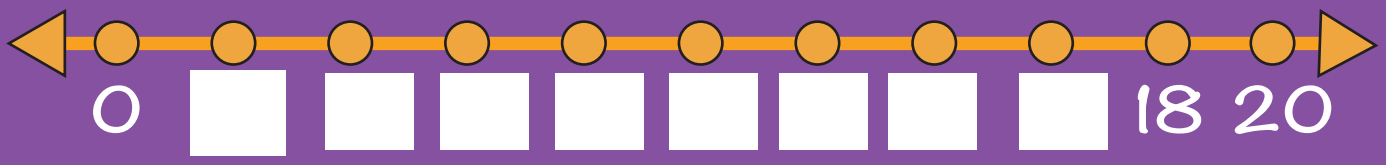


FILL IN THE MISSING NUMBERS. MODEL 2 x 7 ON THE NUMBER LINE.

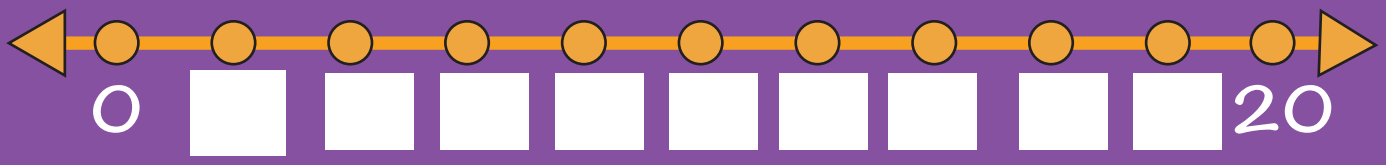


Multiplication Strategies:
SKIP COUNTING

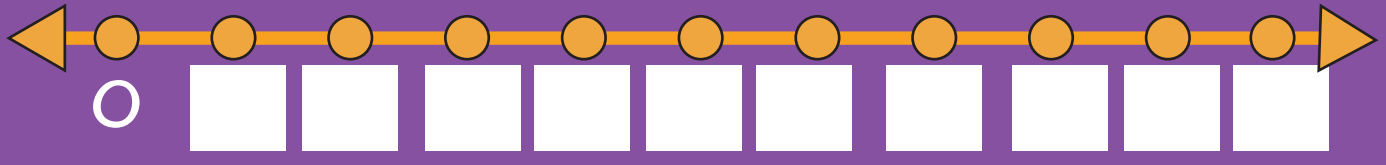
FILL IN THE MISSING NUMBERS. MODEL 2 x 8 ON THE NUMBER LINE.



FILL IN THE MISSING NUMBERS. MODEL 2 x 9 ON THE NUMBER LINE.

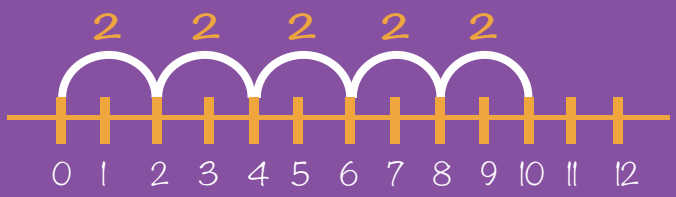


FILL IN THE MISSING NUMBERS. MODEL 2 x 10 ON THE NUMBER LINE.



Multiplication Strategies:

SKIP COUNTING ON THE NUMBER LINE



2 x 5

SOLVE THE PROBLEM ON THE NUMBER LINE

2 x 2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

2 x 3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

2 x 4

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

2 x 5

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SOLVE THE PROBLEM ON THE NUMBER LINE

2 x 6

2 x 7

2 x 8

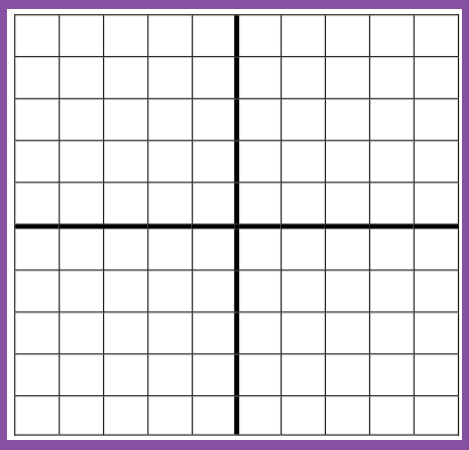
2 x 9

2 x 10

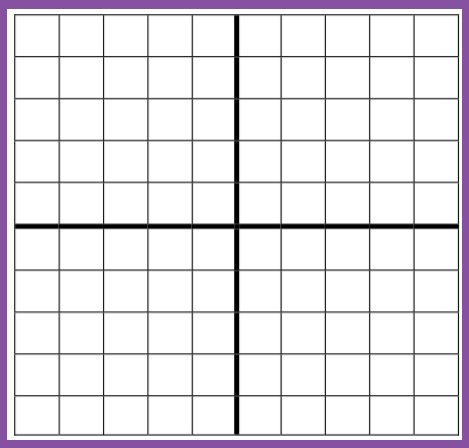
Array Flashcards

MODEL THE PROBLEMS ON THE GRIDS.

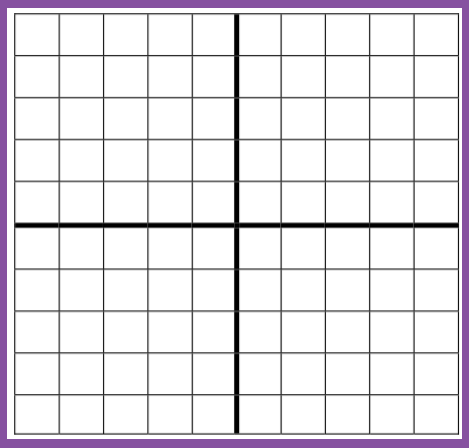
2 x 1 = ___



2 x 2 = ___



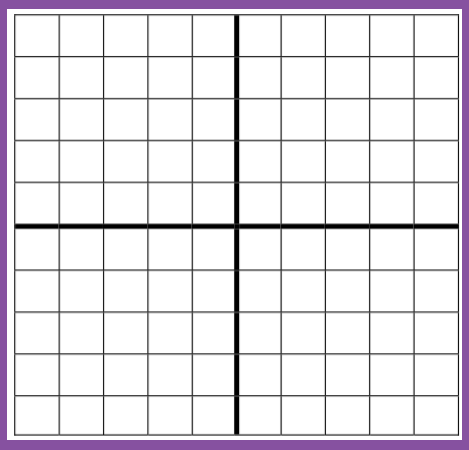
2 x 3 = ___



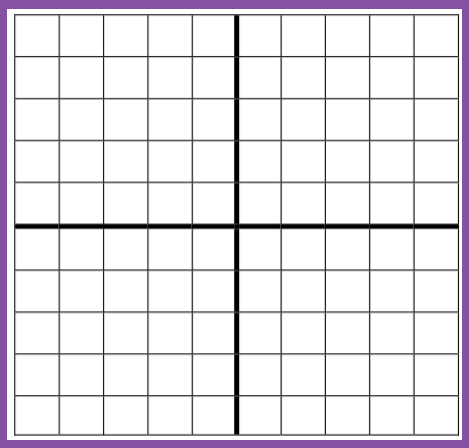
Array Flashcards

MODEL THE PROBLEMS ON THE GRIDS.

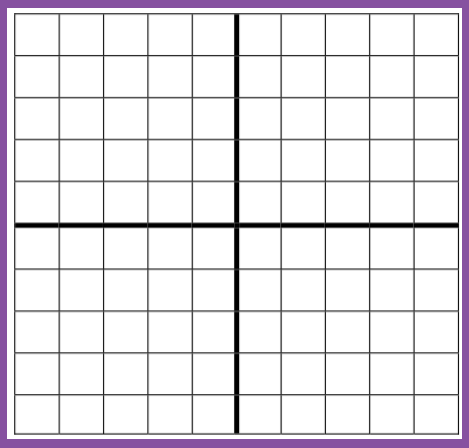
2 x 4 = ___



2 x 5 = ___



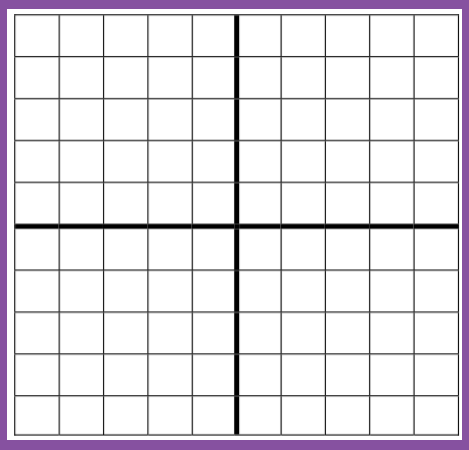
2 x 6 = ___



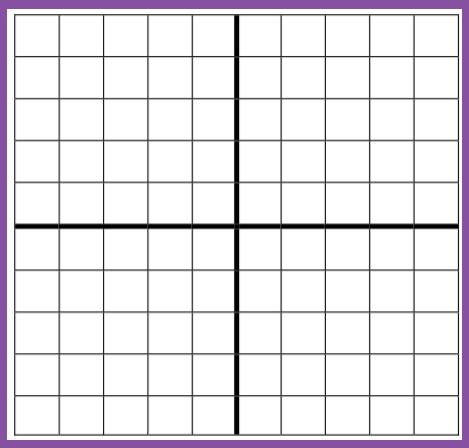
Array Flashcards

MODEL THE PROBLEMS ON THE GRIDS.

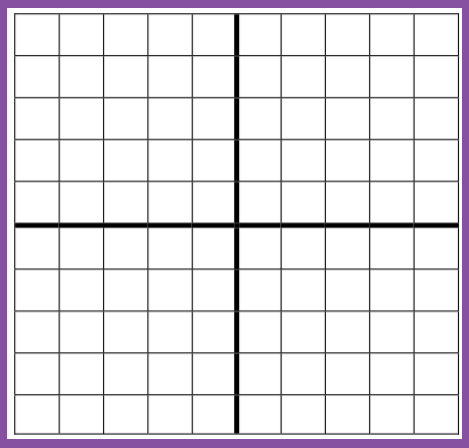
2 x 7 = ___



2 x 8 = ___



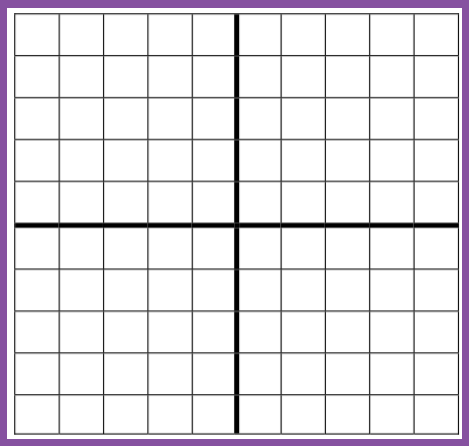
2 x 9 = ___



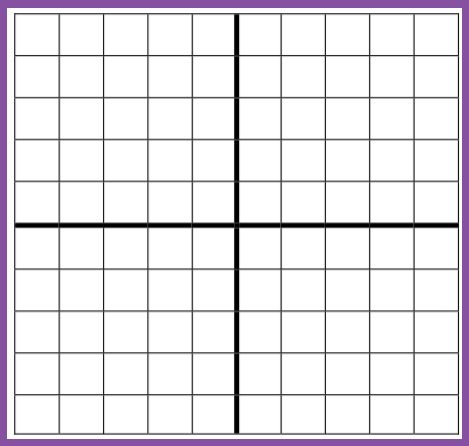
Array Flashcards

MODEL THE PROBLEMS ON THE GRIDS.

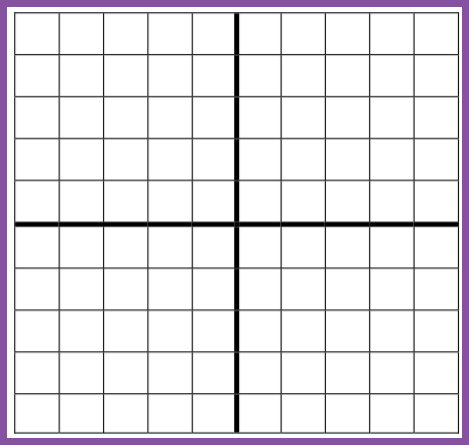
2 x 10 = __



FREE CHOICE



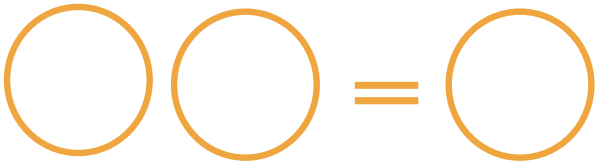
FREE CHOICE



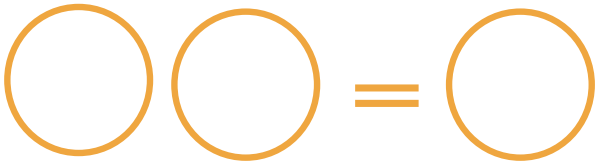
Equal Group Flashcards

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

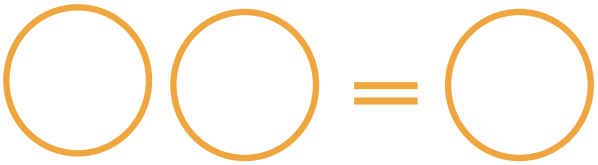
2 X 0 = 0



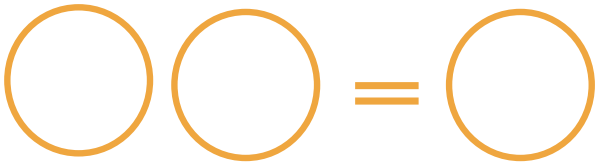
2 X 1 = 2



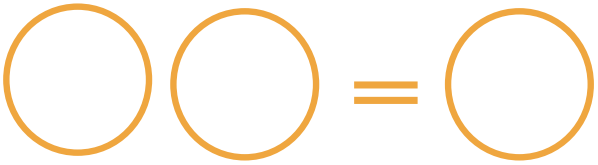
2 X 2 = 4



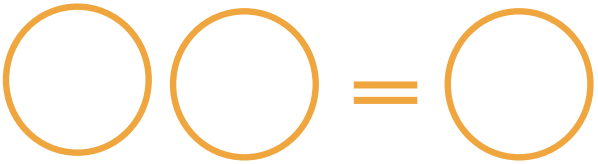
2 X 3 = 6



2 X 4 = 8



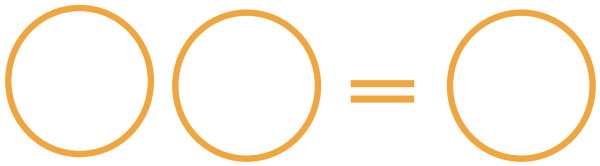
2 X 5 = 10



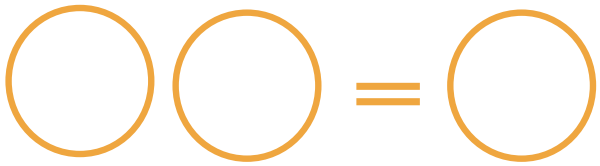
Equal Group Flashcards

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

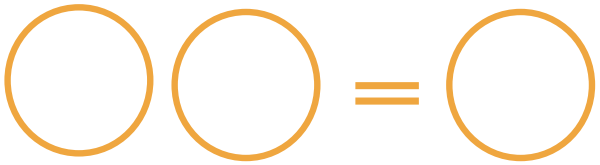
2 X 6 = 12



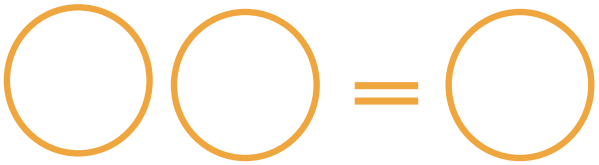
2 X 7 = 14



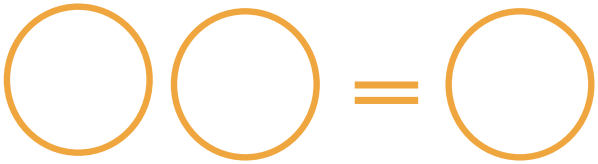
2 X 8 = 16



2 X 9 = 18



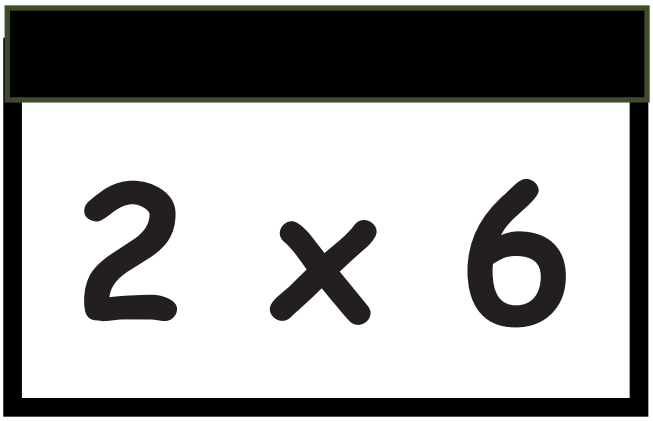
2 X 10 = 20

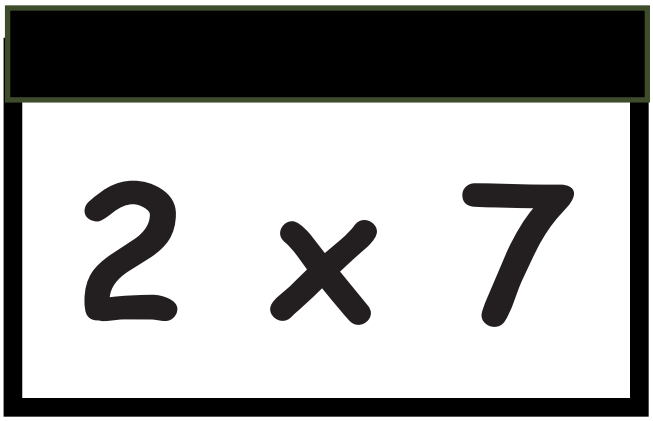


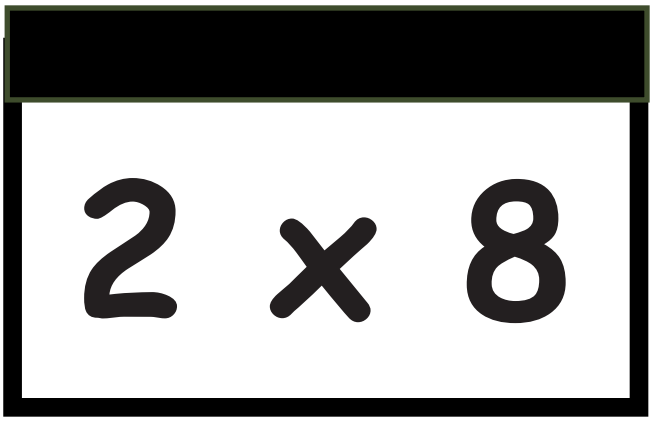
Regular Flashcards

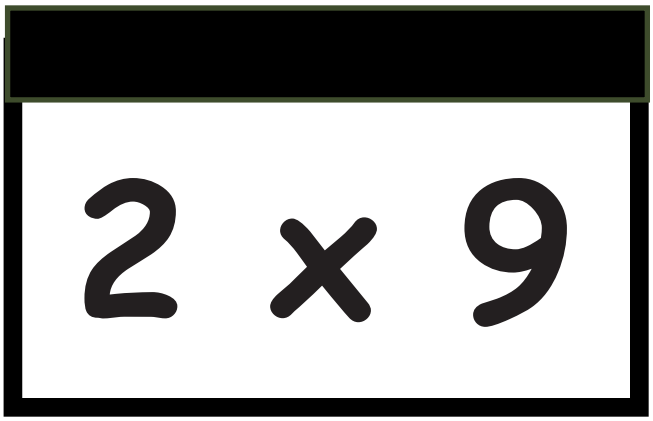
2 x 0	2 x 1
2 x 2	2 x 3
2 x 4	2 x 5

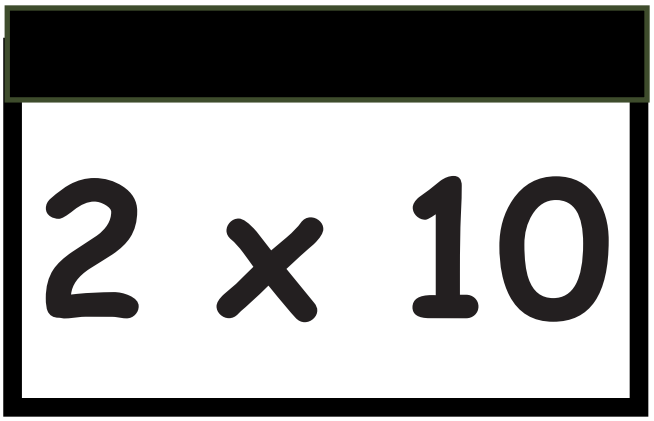
Regular Flashcards





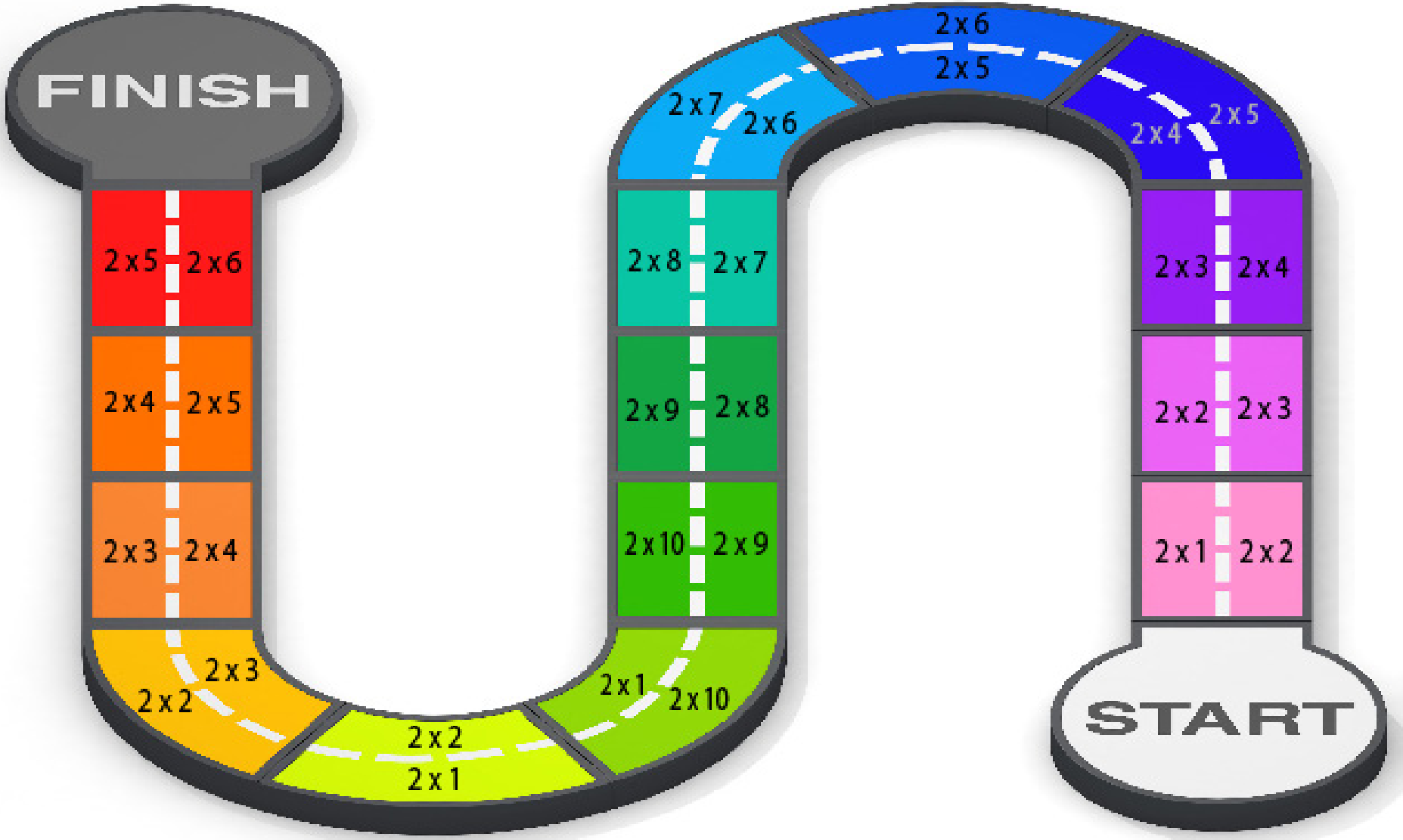






MULTIPLICATION RACE

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.

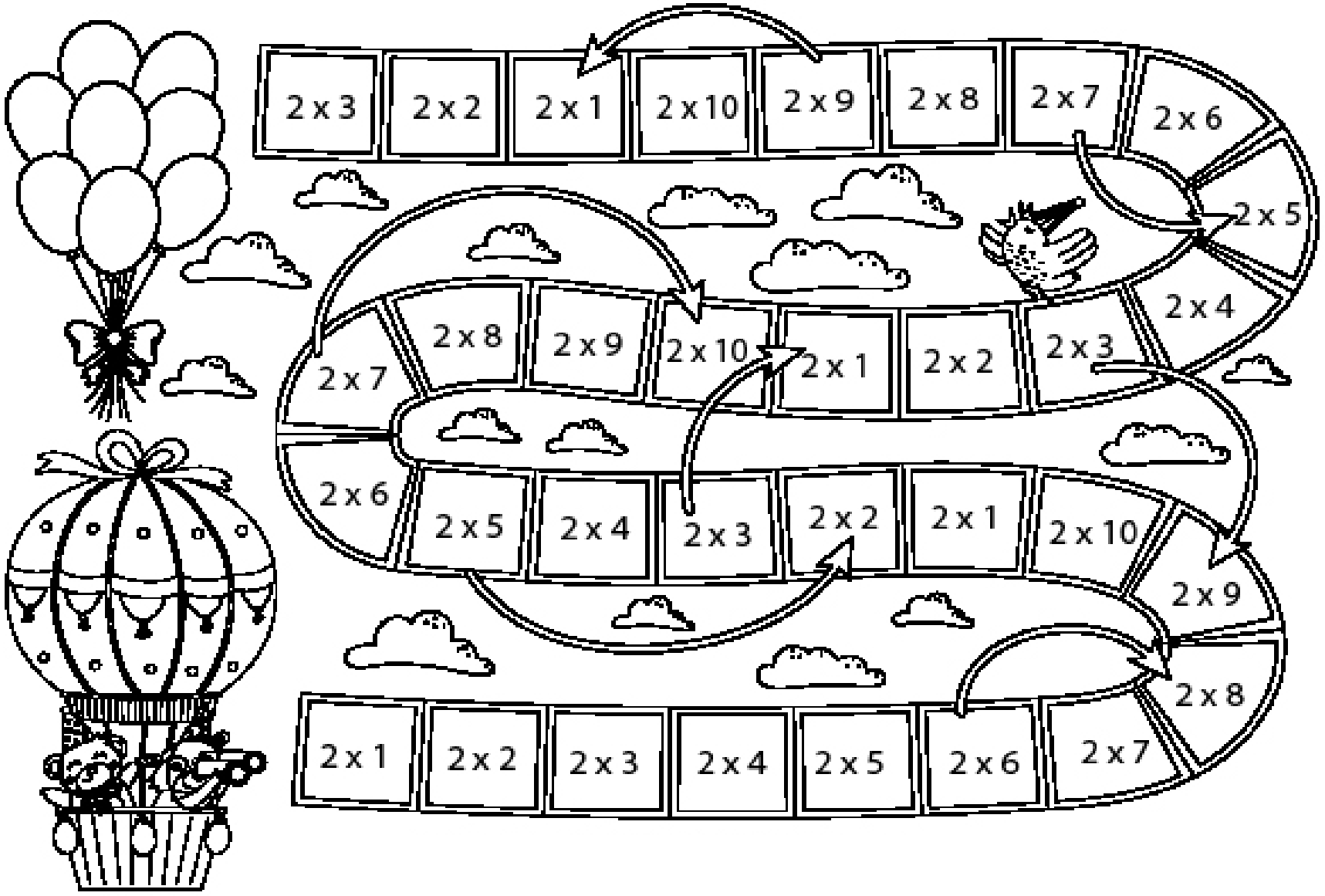


Multiplying by 2

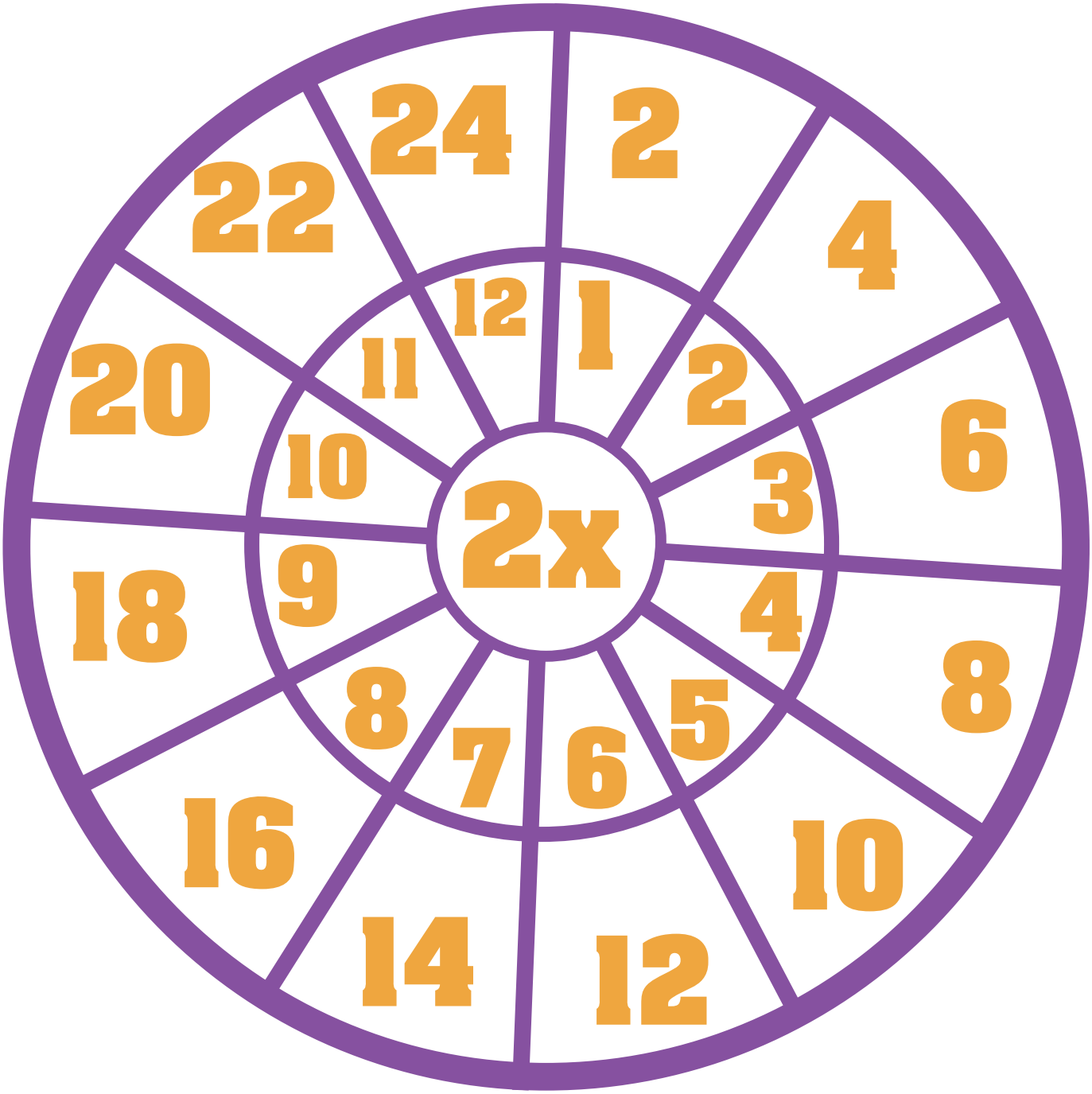
Instructions: Roll the dice and move. Solve the problem on the space where you land. Whoever reaches the end first wins.

Help the animals get to the bunch of balloons

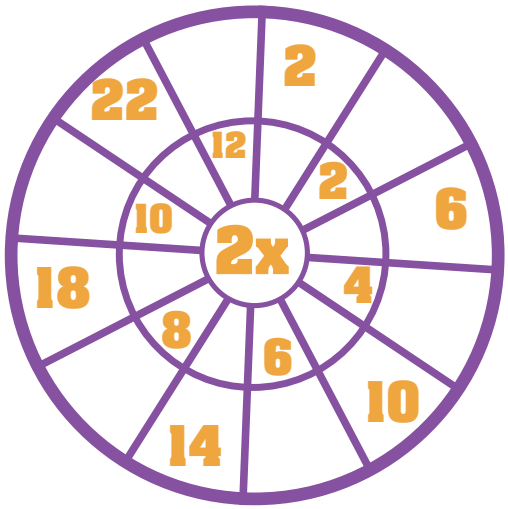
BALLOON RACE

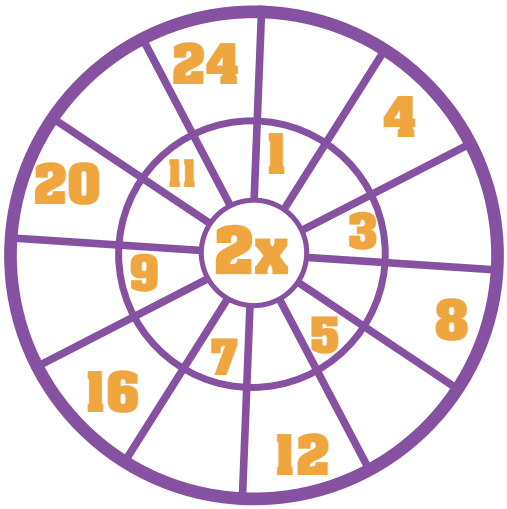


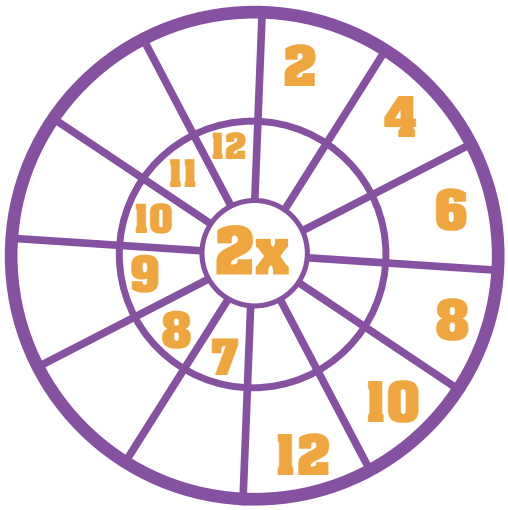
MULTIPLICATION WHEELS

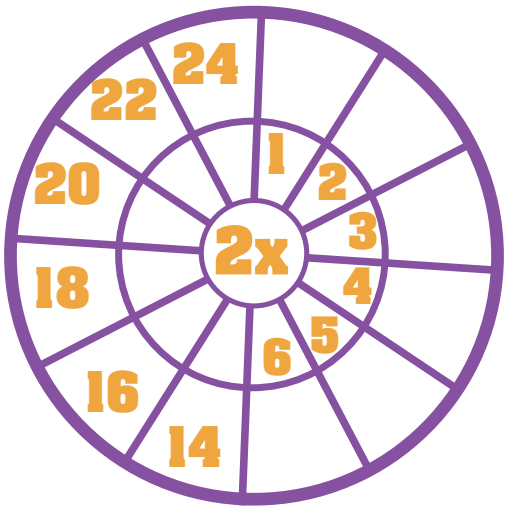


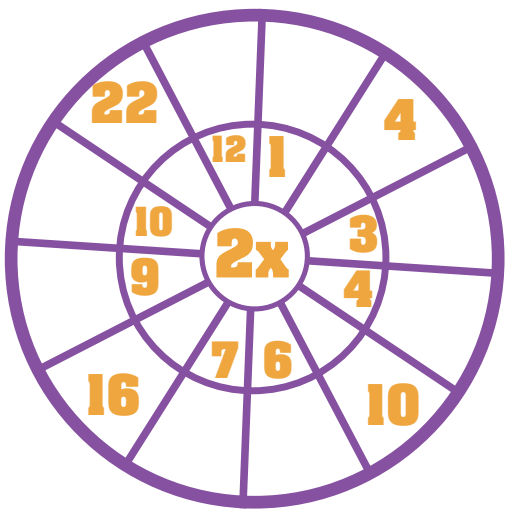
MULTIPLICATION WHEELS

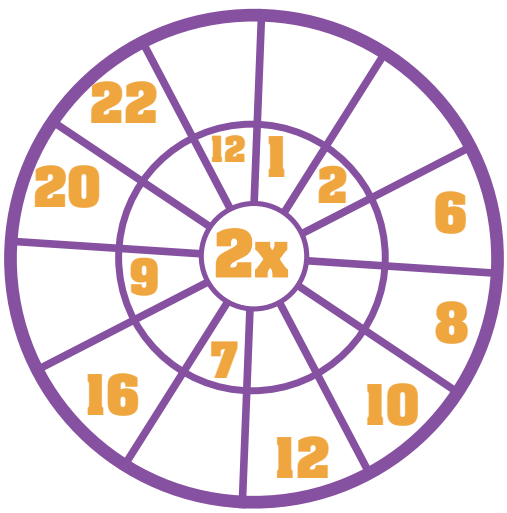




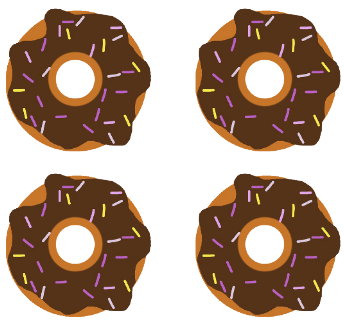








PICTURE FACT FAMILY



_____ x _____ = _____

_____ x _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

_____ x _____ = _____

_____ x _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

_____ x _____ = _____

_____ x _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

_____ x _____ = _____

_____ x _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

PICTURE FACT FAMILY

___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

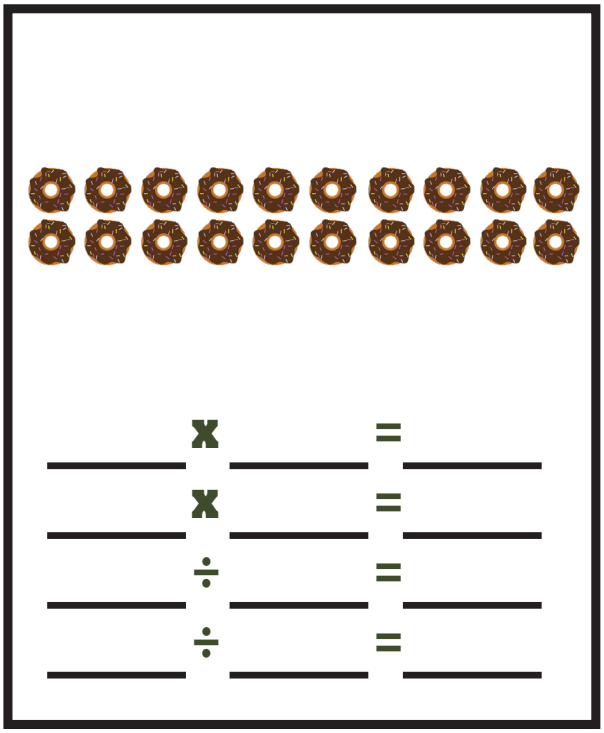
___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

PICTURE FACT FAMILY



_____ × _____ = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

MAKE YOUR OWN

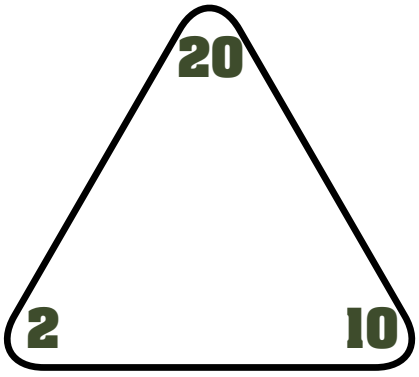
_____ × _____ = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

TRIANGLE FACT FAMILY

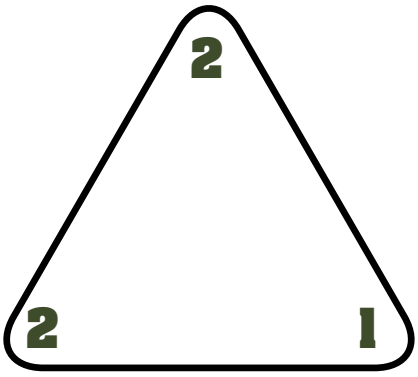


____ x ____ = ____

____ x ____ = ____

____ ÷ ____ = ____

____ ÷ ____ = ____

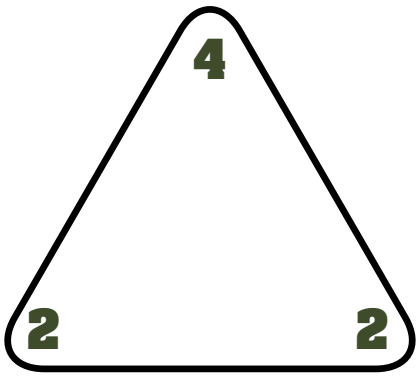


____ x ____ = ____

____ x ____ = ____

____ ÷ ____ = ____

____ ÷ ____ = ____

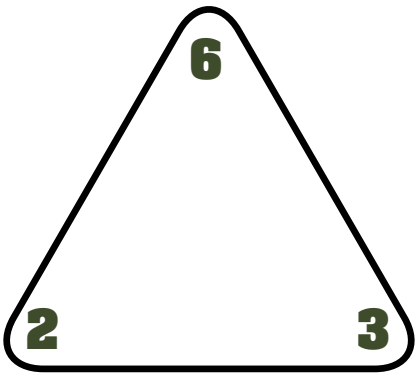


____ x ____ = ____

____ x ____ = ____

____ ÷ ____ = ____

____ ÷ ____ = ____



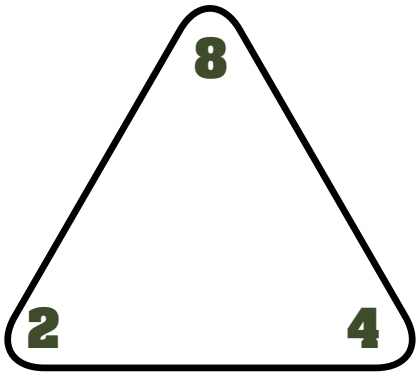
____ x ____ = ____

____ x ____ = ____

____ ÷ ____ = ____

____ ÷ ____ = ____

TRIANGLE FACT FAMILY

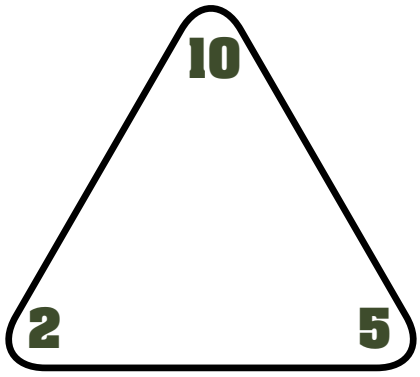


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

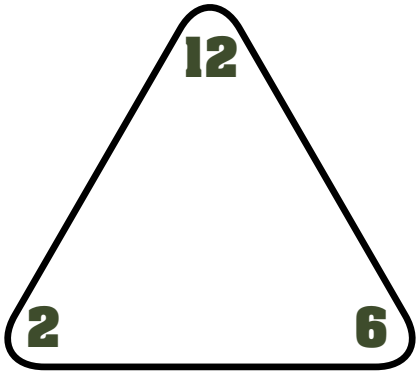


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

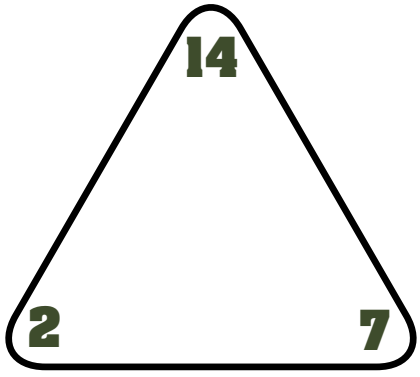


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



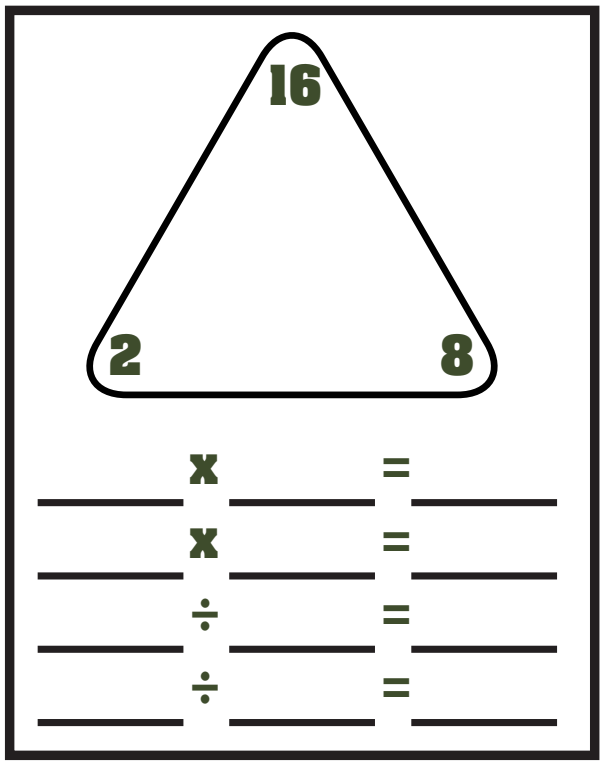
___ x ___ = ___

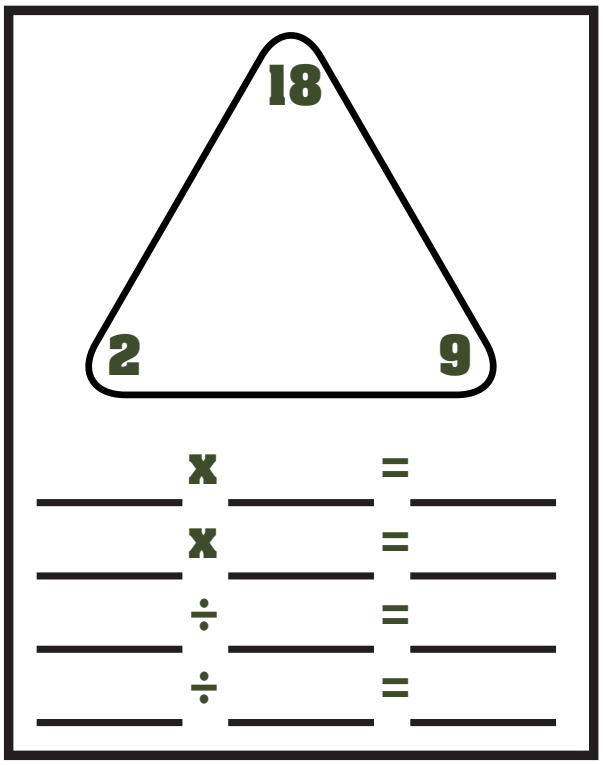
___ x ___ = ___

___ ÷ ___ = ___

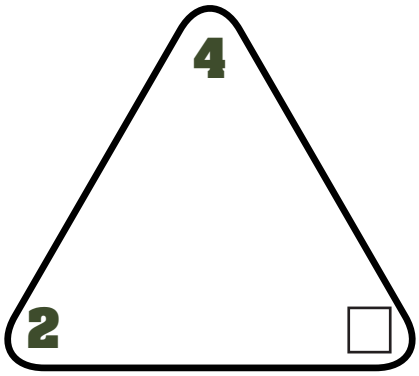
___ ÷ ___ = ___

TRIANGLE FACT FAMILY





TRIANGLE FACT FAMILY

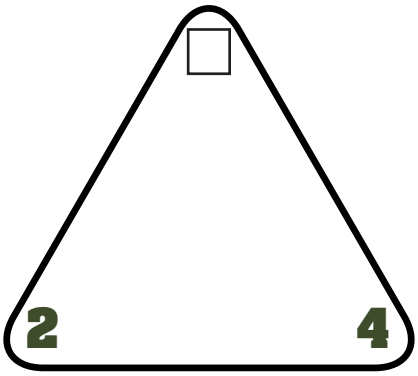


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

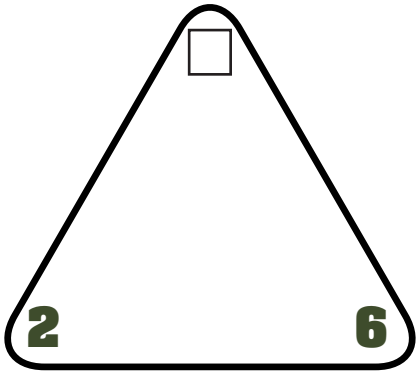


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

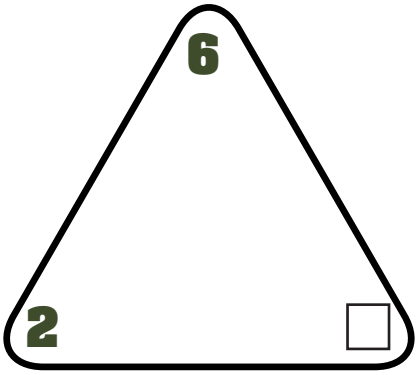


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



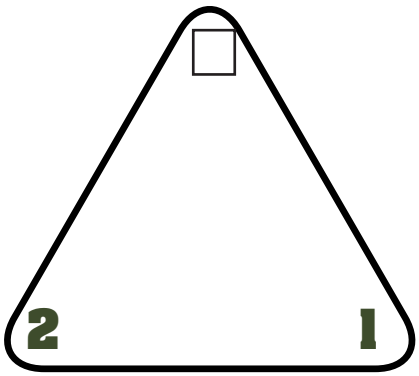
___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

TRIANGLE FACT FAMILY

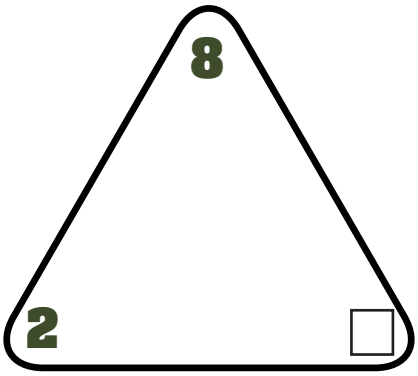


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

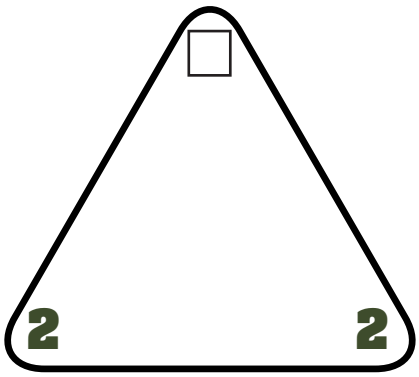


___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



___ x ___ = ___

___ x ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

WORD PROBLEM

MODEL YOUR THINKING AND SOLVE THE PROBLEM

THE BAKERY HAD 5 ROWS OF DONUTS. THERE WERE 2 DONUTS IN EACH ROW. HOW MANY DONUTS DID THEY HAVE ALTOGETHER?

_____ X _____ = _____

THE BAKERY HAD 2 BOXES WITH 8 DONUTS IN EACH BOX. HOW MANY DONUTS DID THEY HAVE?

_____ X _____ = _____

THERE WERE 2 BAGS OF DONUTS IN THE BAKERY. EACH BAG HAD 4 DONUTS INSIDE. HOW MANY DONUTS WERE THERE ALTOGETHER?

_____ X _____ = _____

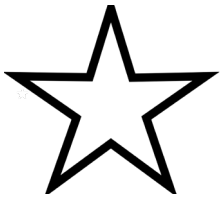
THE BAKERY HAD 9 BOXES OF DONUTS WITH 2 DONUTS IN EACH BOX. HOW MANY DONUTS DID THEY HAVE ALTOGETHER?

_____ X _____ = _____

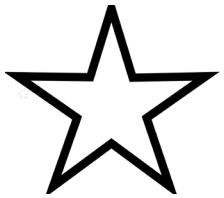
QUIZ

WRITE A 2'S FACT IN EACH BOX. THEN FOLLOW THE INSTRUCTIONS IN EACH BOX TO MATCH THE FACT.

I CAN SKIP COUNT BY 2'S!	**I CAN REPRESENT 2'S WITH EQUAL GROUPS!**
I CAN REPRESENT 2'S WITH ARRAYS!	**I CAN REPRESENT 2'S ON THE NUMBER LINE.**
I CAN USE REPEATED ADDITION FOR MY 2'S.	**MY STRATEGY FOR THINKING ABOUT 2'S IS...**



GREAT MATH WORK!



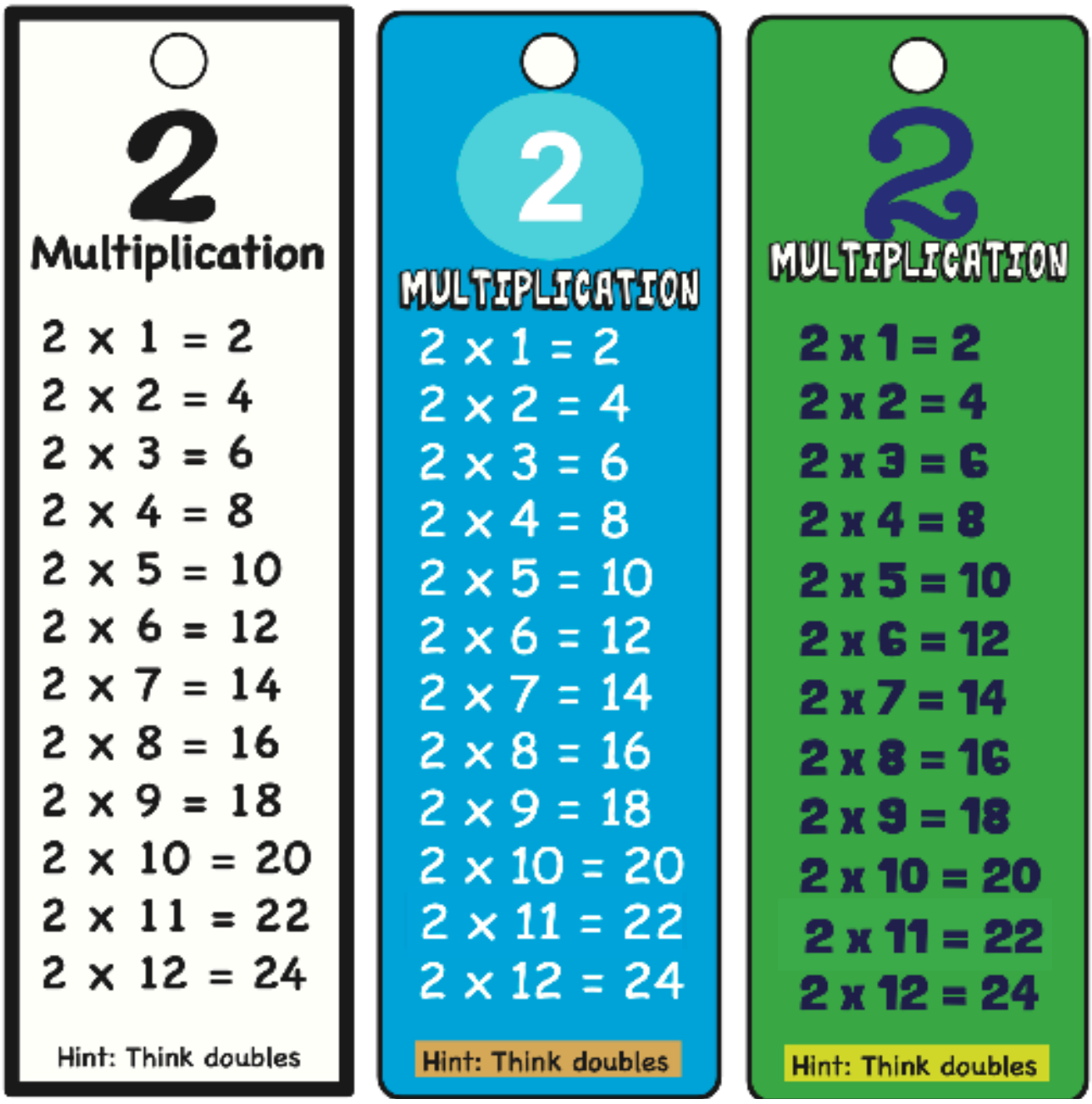
CERTIFICATE

_____

HAS SUCCESSFULLY PRACTICED THE 2 TIMES TABLES!

GREAT JOB!

TEACHER: _____ **DATE:** _____


2
Multiplication
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
2 x 11 = 22
2 x 12 = 24
Hint: Think doubles
2
MULTIPLICATION
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
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