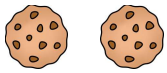
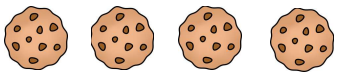
MATH JOURNAL LESSON 4 EXPLORE THE 0s AND 1s TIMES TABLES

WATCH ME FIRST!

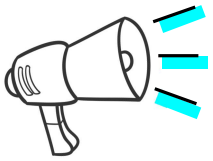
Cookie Orders	Create a Model & Write a Multiplication Fact	Number of Chocolate Chip Sold	Create a Model & Write a Multiplication Fact	Number of Fudge Striped Sold
2 customers bought 1 each none	 $2 \times 1 =$	2	$2 \times 0 =$	0
3 customers bought 1 each none	 $3 \times 1 =$	_____	$3 \times 0 =$	_____

LET'S WORK TOGETHER!

1) Use the model to record a multiplication fact. Fill in the blanks.

Cookie Orders	Create a Model & Write a Multiplication Fact	Number of Chocolate Chip Sold	Create a Model & Write a Multiplication Fact	Number of Fudge Striped Sold
4 customers bought 1 each none	 _____ × _____ = _____		_____ × _____ = _____	
5 customers bought 1 each none	 _____ × _____ = _____		_____ × _____ = _____	

Vocabulary Highlight



Any number multiplied by 0 equals zero. This is called the **zero property of multiplication**.

Any number multiplied by 1 equals that number. This is called the **identity property of multiplication**.

MATH JOURNAL LESSON 4 EXPLORE THE 0s AND 1s TIMES TABLES

LET'S WORK TOGETHER TO EXPLORE SOME FACTS...

A) How are these facts different: 4 × 1 and 4 + 1? Draw a picture below and write an explanation. Let's discuss.

4 × 1 = _____

4 + 1 = _____

B) How are these facts different: 4 × 0 and 4 + 0? Draw a picture below and write an explanation. Let's discuss.

4 × 0 = _____

4 + 0 = _____

MATH JOURNAL LESSON 4 EXPLORE THE 0s AND 1s TIMES TABLES

YOUR TURN! Solve the problems.

Directions: Cut out the cookies to complete the cookie orders. Fill in the blanks with matching facts.

Cookie Orders	Create a Model & Write a Multiplication Fact	Number of Chocolate Chip Sold	Create a Model & Write a Multiplication Fact	Number of Fudge Striped Sold
6 customers bought 1 each none	____ × ____ = ____		____ × ____ = ____	
7 customers bought 1 each none	____ × ____ = ____		____ × ____ = ____	
8 customers bought 1 each none	____ × ____ = ____		____ × ____ = ____	
9 customers bought 1 each none	____ × ____ = ____		____ × ____ = ____	
10 customers bought 1 each none	____ × ____ = ____		____ × ____ = ____	

MATH JOURNAL LESSON 4 EXPLORE THE 0s AND 1s TIMES TABLES

YOUR TURN! Solve the problems. (continued)

Directions: Cut out the cookies to complete the cookie orders. Fill in the blanks with matching facts.

Cookie Orders	Create a Model & Write a Multiplication Fact	Number of Chocolate Chip Sold	Create a Model & Write a Multiplication Fact	Number of Fudge Striped Sold
11 customers bought 1 each none	_____ × _____ = _____		_____ × _____ = _____	
12 customers bought 1 each none	_____ × _____ = _____		_____ × _____ = _____	

C) What patterns do you notice when multiplying by 0s ?

_____

_____

_____

D) What patterns do you notice when multiplying by 1s ?

_____

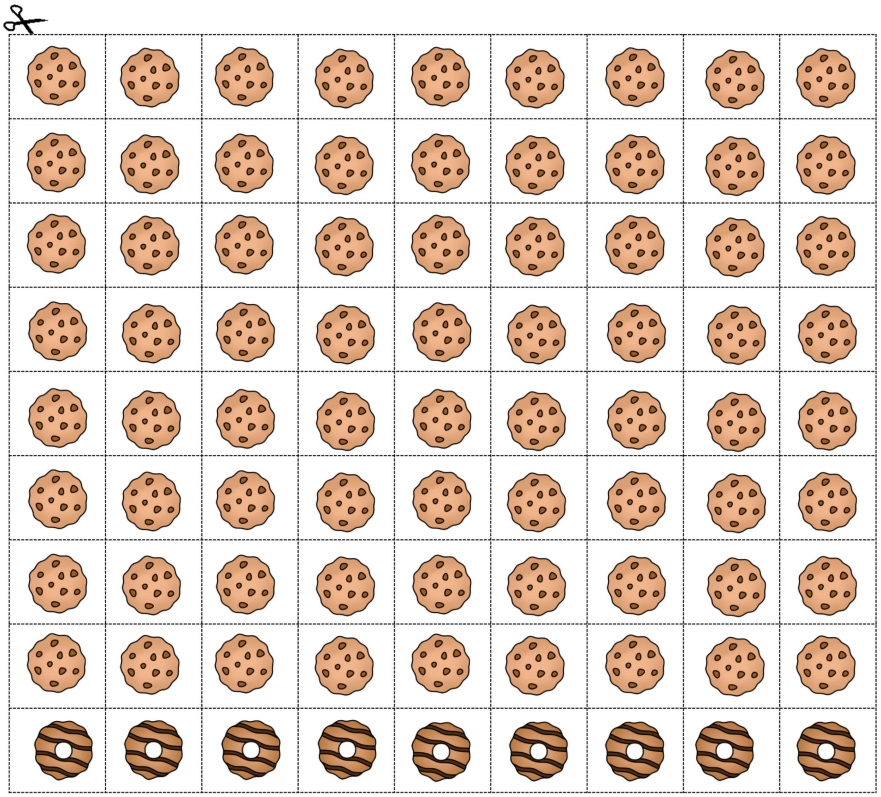
_____

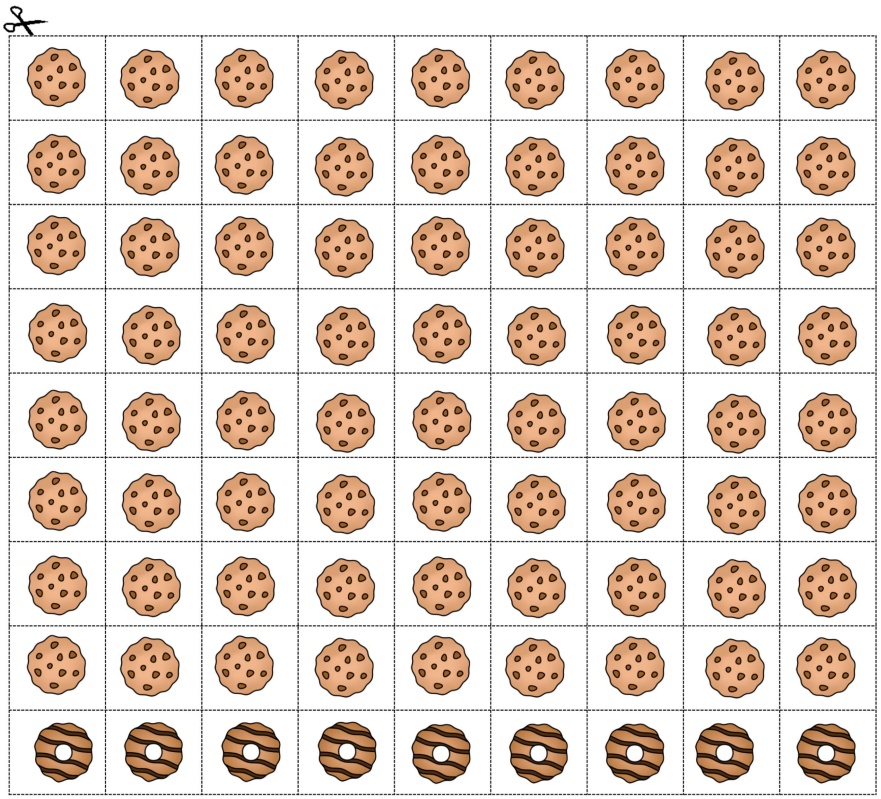
_____

MATH JOURNAL LESSON 4

COOKIE CUT-OUTS

Directions: Cut out the cookies below to use with "Your Turn" Lesson 4.



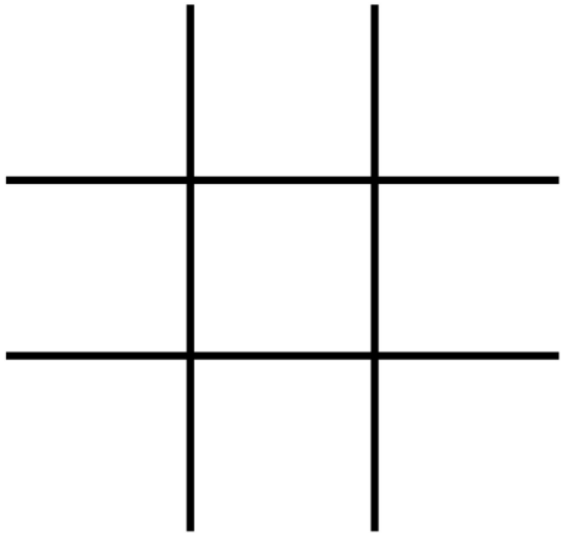


EXTRA PRACTICE GAME

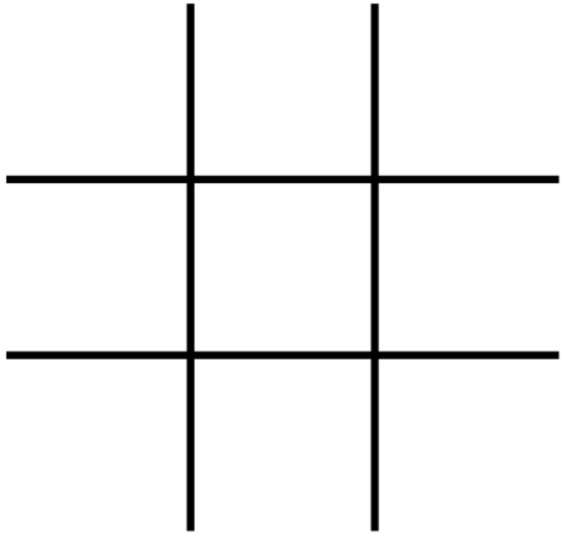
3 IN A ROW

0 and 1 TIMES TABLES GAME

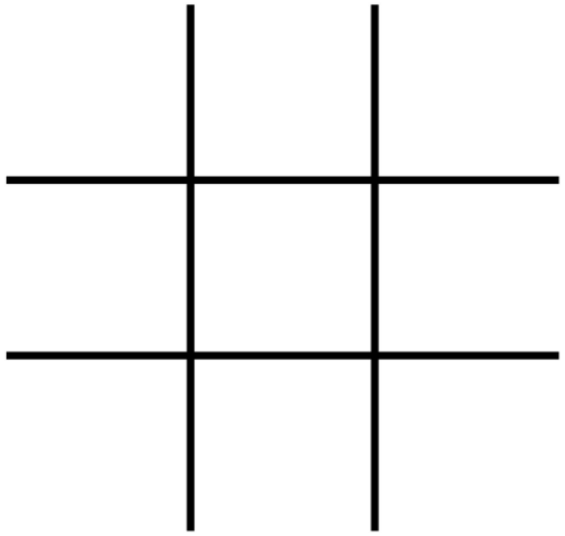
ROUND 1



ROUND 2



ROUND 3



DIRECTIONS

Object of Game:

The first player to get 3 (X or O) marks in a row (vertically, horizontally or diagonally) wins.

How to Play:

1) Player #1:

- Picks a game card and answers it.
- If the answer is correct, Player #1 writes an "X" in an empty space in the Round 1 grid.
- If the answer is incorrect, Player #1 loses the turn.

2) Player #2 repeats the steps above, but uses "O".

PLACE CARDS FACE DOWN HERE

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What's the answer?

1 group of 4 = ?

What's the answer?

7 groups of 1 = ?

Solve. Write a matching equation.

Ms. Davis has 5 packs of gum. Each pack contains one stick of gum. How many sticks of gums are there in all?

Find the product.

0 × 7 = ?

Solve. Write a matching equation.

A farmer has six cartons of eggs. There are no eggs in each carton. How many eggs are there in all?

The fact below is an example of:

11 × 1 = 11

The Identity Property of Multiplication **or** The Zero Property of Multiplication

Solve. Write a matching equation.

Kim has 3 backpacks. There is 1 book in each backpack. How many books are there in all?

Solve. Write a matching equation.

Five customers bought one striped cookie each. No customers purchased chocolate chip cookies. How many chocolate chip cookies were sold?

Solve. Write a matching equation.

Alicia bought a new bookcase with 8 shelves. There is one book on each shelf. How many books are on all the shelves?

What's the answer?

1 group of 2 = ?

What's the missing number?.

? × 1 = 9

The fact below is an example of:

12 × 1 = 12

The Identity Property of Multiplication **or** The Zero Property of Multiplication

Find the product.

0 × 8 = ?

The fact below is an example of:

0 × 1 = 0

The Identity Property of Multiplication **or** The Zero Property of Multiplication

What's the missing number?

3 × ? = 3

The fact below is an example of:

2 × 0 = 0

The Identity Property of Multiplication **or** The Zero Property of Multiplication

What's the missing number?

1 × ? = 4

What's the missing number?

11 × ? = 0

MULTIPLICATION
0 and 1 TIMES TABLES ACTIVITY

ANSWER KEY

GAME CARDS	
1. 4	**10**. 2
2. 7	**11**. 9
3. 5 x 1 = 5	**12**. Identity Property of Multiplication
4. 0	**13**. 0
5. 6 x 0 = 0	**14**. Zero Property of Multiplication
6. Identity Property of Multiplication	**15**. 1
7. 3 x 1 = 3	**16**. Zero Property of Multiplication
8. 5 x 0 = 0	**17**. 4
9. 8 x 1 = 8	**18**. 0

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