

Date

WARM-UP

Page #

AGENDA

- WARM-UP
- LAUNCH
- CORNELL NOTES
Multiplying/Dividing
Integers
- WORKSHEET
- EXIT TICKET

THE NUMBER SYSTEM CCSS 7.NS.1d

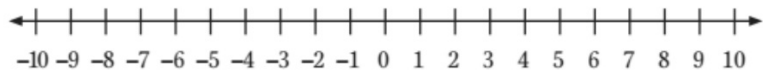
Working with Integers I

Using appropriate arrow notations on number lines such as the one pictured below, represent the expressions given and find the results. Use a new number line for each sentence.

1. $-8 + 12 = ?$

2. $(-7) + (-3) = ?$

3. $5 + (-9) = ?$



<p>Topic: Multiplying/ Dividing Integers</p>	<p><u>Lesson Essential Question</u> How are the operations of multiplication and division related? How do you decide if a product or quotient is positive or negative?</p>
<p>What do I do?</p>	<p>Ignore the signs</p> <p>Multiply or divide numbers given</p> <p>Count the number of negative signs</p>
<p>What sign will the answer be?</p>	<p>If an EVEN amount: the answer is Positive</p> <p>If an ODD amount: the answer is Negative</p>
<p>Examples:</p>	<p>1) $-5(9)$ 2) -6×-7 3) $-42/2$</p> <p>4) 68 5) $-18 \div 3$ 6) $4(-5)(-3)$</p> <p> -4</p>

Topic:
Multiplying/
Dividing
Integers

Lesson Essential Question

How are the operations of multiplication and division related? How do you decide if a product or quotient is positive or negative?

Triangle
Method

Circle the signs of the two values in the problem, the remaining sign is part of the answer.

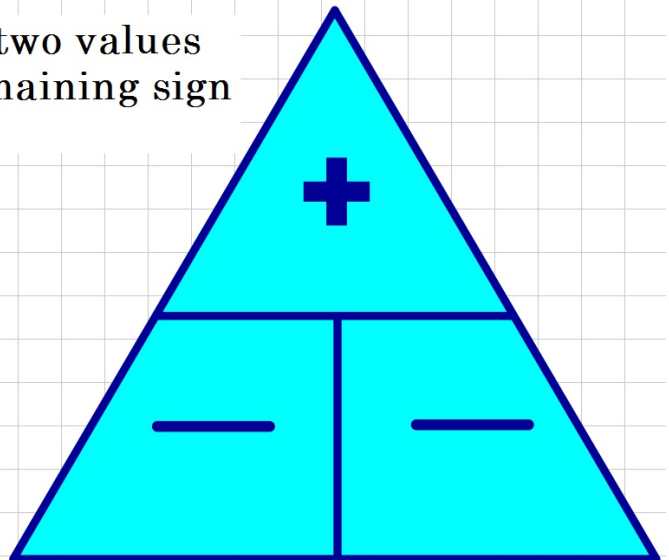
Examples:

$$-6 \times 3 =$$

$$-2 \bullet -4 =$$

$$48 \div -8 =$$

$$\frac{-36}{9}$$



Topic:
Multiplying/
Dividing
Integers

Lesson Essential Question

How are the operations of multiplication and division related? How do you decide if a product or quotient is positive or negative?

Tic Tac Toe
Method

(One positive two negatives in various order.)
Read lines straight across or vertically. First two are signs of numbers, third is the sign of the answer.

Examples:

$$-6 \times 3 =$$

+	-	-
-	+	-
-	-	+

$$-2 (-4) =$$

+	-	-
-	+	-
-	-	+

$$48 \div (-8) =$$

$$\frac{-36}{9}$$

Example: Karen runs for the track team. If she ran the same distance, 4 miles, each day for four days this week, how far did Karen run?

**What
does this
look like?**

INFORMATION

PICTURE

SOLUTION

**Practice
#1**

A person has a debt of \$200. Five friends offer to pay off all of the debt. How much does each person need to pay in order to pay off the debt?

**What
does this
look like?**

INFORMATION

PICTURE

SOLUTION

**Practice
#2**

Mrs. Fields needed 32 dollars to fill up her gas tank. She withdrew seven times that amount. How would this be represented in her bank account?

**What
does this
look like?**

INFORMATION	PICTURE	SOLUTION

**Practice
#3**

A scuba diver is swimming at a depth of -12 feet. Then she dives down to a coral reef that is five times this depth. What is the depth of the coral reef?

**What
does this
look like?**

INFORMATION

PICTURE

SOLUTION



Name	Date	Block
1) $-4(-18)$	2) -8×9	
3) $12/2$	4) $\frac{-64}{8}$	
5) Explain a strategy to help you remember how to multiply and divide integers?		