

<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>	<table border="0"> <tr> <td data-bbox="359 1205 925 1429"> <p>If an EVEN amount: the answer is Positive</p> </td> <td data-bbox="925 1205 1495 1429"> <p>If an ODD amount: the answer is Negative</p> </td> </tr> </table>	<p>If an EVEN amount: the answer is Positive</p>	<p>If an ODD amount: the answer is Negative</p>				
<p>If an EVEN amount: the answer is Positive</p>	<p>If an ODD amount: the answer is Negative</p>						
<p>Examples:</p>	<table border="0"> <tr> <td data-bbox="359 1429 558 1489">1) $-5(9)$</td> <td data-bbox="558 1429 829 1489">2) -6×-7</td> <td data-bbox="829 1429 1212 1489">3) $-42/2$</td> </tr> <tr> <td data-bbox="359 1489 558 1630">4) 68 -4</td> <td data-bbox="558 1489 829 1630">5) $-18 \div 3$</td> <td data-bbox="829 1489 1212 1630">6) $4(-5)(-3)$</td> </tr> </table>	1) $-5(9)$	2) -6×-7	3) $-42/2$	4) 68 -4	5) $-18 \div 3$	6) $4(-5)(-3)$
1) $-5(9)$	2) -6×-7	3) $-42/2$					
4) 68 -4	5) $-18 \div 3$	6) $4(-5)(-3)$					

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.

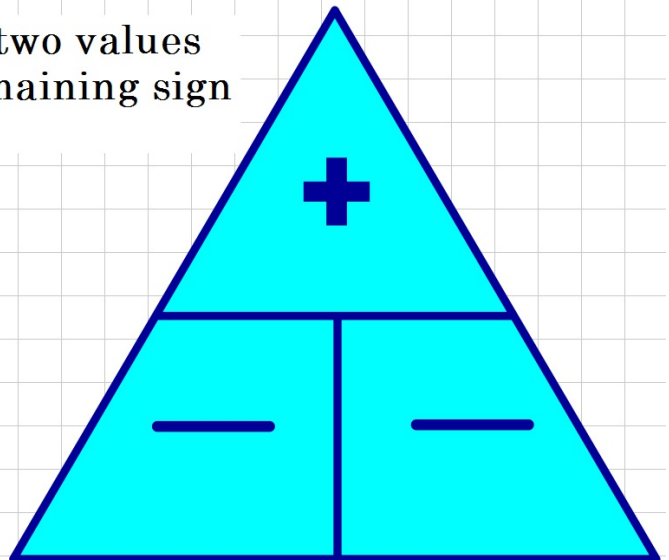
Examples:

$$-6 \times 3 =$$

$$-2 \bullet -4 =$$

$$48 \div -8 =$$

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



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:

$$-6 \times 3 =$$

+	-	-
-	+	-
-	-	+

$$-2 (-4) =$$

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

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

Topic: Order of Operations with Integers

Lesson Essential Question

What is it?

the steps that ensure numerical expression have only one value

What do I do?

Parentheses

Exponents

Multiply / Divide from left to right

Add / subtract from left to right

Why does the order matter?

The answer will be different.

Example:

$$1) 10 - 5(7)$$

$$10 - 35$$

$$-25$$

$$2) 10 - 5 \times 7$$

$$5 \times 7$$

$$35$$

Which is done correctly?

Order of Operations

List the steps and find the answer.

Ex 1)

$$(2+3)^2 \quad P, E \quad 25$$

Ex 2)

$$2(3) - 4/2 + 2^2$$

Ex 3)

$$(6 - 3) + 2(1+4) - 7$$

Ex 4)

$$(3-2)^2 - 10/5 + 2(3)$$