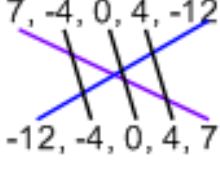


Name _____

Unit 5 Study Guide

Topic	Examples
<p><u>Integers</u> any whole number, positive, negative, or 0</p>	<p>-3, -7, 0, 14, 18</p>
<p><u>Compare Integers</u> on a number line, further left, lesser, further right, greater negative always less than positive smaller negative numbers are larger</p>	<p>-3 > -7 -14 < 2</p>
<p><u>Order Integers</u> find the largest, then the smallest, then put them in order in between by comparing them</p>	<p>7, -4, 0, 4, -12 -12, -4, 0, 4, 7</p> 
<p><u>Adding Integer</u> 1. same sign : add the numbers keep the sign 2. different sign : find the difference keep the sign of the larger number</p>	<p>$-6 + -5 = -11$ $-11 + 7 = -4$</p>
<p><u>Subtracting Integers</u> Add the opposite of the second number</p>	<p>$-7 - 8 = -7 + -8 = -15$ $-6 - (-13) = -6 + 13 = 7$</p>
<p><u>Multiplying Integers</u> 1. Same sign : answer is positive 2. Different sign : answer is negative</p>	<p>$-8 \cdot 7 = -56$ $-9 \cdot -5 = 45$</p>

Dividing Integers

Same rules as multiplication

$$-36 \div 9 = -4$$

$$-144 \div -12 = 12$$

Equations with Integers

Remember the operations with integers

Remember the key words for solving an equation.

OPPOSITE OPERATION

$$\begin{aligned}x - 6 &= -3 \\x &= -3 + 6 \\x &= 3\end{aligned}$$

$$\begin{aligned}-6a &= -48 \\a &= -48 \div -6 \\a &= 8\end{aligned}$$

Quadrants & Graphing

Label these parts of the graph to the right:

- Quadrant I
- Quadrant II
- Quadrant III
- Quadrant IV
- x-axis
- y-axis
- origin



Patterns and Tables

What is the rule for the chart to the right?

multiply 5 add 1

Write that rule as an equation.

$$y = 5x + 1$$

Once you've discovered the pattern, fill in the empty boxes.

x	y
-2	-9
-1	-4
0	1
1	6
4	21
6	31
8	41

Graphing Equations

Fill in the t-chart for the equation: $y = x - 2$

x	y
-2	-4
-1	-3
0	-2
1	-1
2	0

Graph the equation on the coordinate plane.

