

How do 3 and Sutebers weth the calle excup



Add their absolute values.

The sum is positive if both integers are positive.

The sum is negative if both integers are negative.

Examples: 3+4=7 -2+(-4)=-6

HOW DO I COSTRAGT INTEGERS WITH THE SAME SIGN?



Add its opposite. Then follow the rules for adding. Another way to say it is "same, change, change."

Example: 4-15=4+(-15)=-11



HOW DO I HULTIPLY INTEGERS WITH THE SAME SIGNY



The product of two integers with the same sign is positive.

positive.

Multiply by an even # of negatives ----- positive answer.

How do i dediede enlebere melh lie enhe erbib



The quotient of two integers with the same sign is

$$144 \div 12 = 12$$

$$-72 \div -9 = 8$$

HOW DO I HOD INTERING WITH DIFFERENT SIGNE?

Subtract their absolute values.

The sum is <u>positive</u> if the <u>positive</u> integer's absolute value is greater.

The sum is <u>negative</u> if the <u>negative</u> integer's absolute value is greater.

Examples: 7+(-11) = -4 -2+9=7

How do i custanst intering with different signer

Add its opposite. Then follow the rules for adding.

Two negatives next to each other make a positive!

$$18-(-2) = 18 + (+2) = 20$$

$$-5 - 11 = -5 - (+11) = -5 + (-11) = -16$$

HOW DO I HULTIPLY INTEBERS WITH DIFFERENT SIGNE?

The product of two integers with different signs is negative.

$$7(-8) = -56$$
  $-9(8) = -72$ 

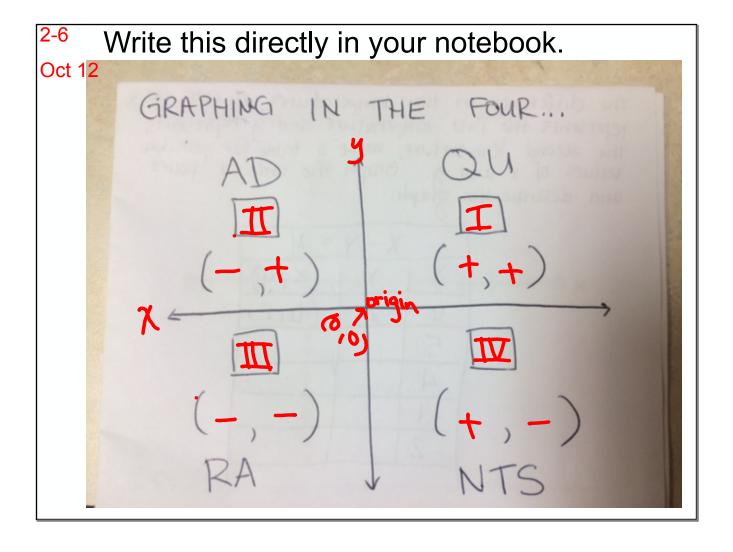
Multiply by an odd # of negatives ----- negative answer.

HOW DO I DIVIDE INTERERS WITH DIFFERENT SIGNEP

The quotient of two integers with different signs is negative.

$$90 \div (-10) = -9$$

$$-120 \div 5 = -24$$



## **Guided Practice**

Name the ordered pair for each point graphed at the right. (Example 1)

1.0(-5,+2)

2. P ( 3 - 37 11

**3.** T

(5,2)

4. M (-5,-2)

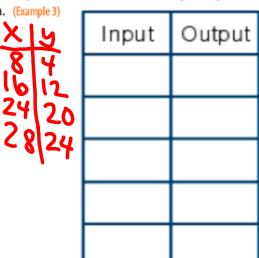
Graph and label each point on a coordinate plane. Name the quadrant in which each point is located. (Example 2)

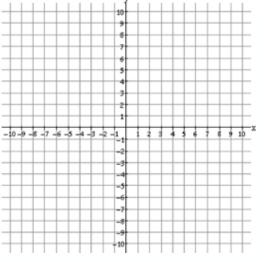






9. Model with Mathematics The difference of two temperatures is 4°F. If x represents the first temperature and y represents the second temperature, make a table of possible values for x and y. Graph the ordered pairs and describe the graph. (Example 3)







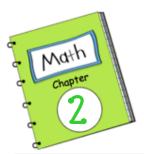
## 7th Grade ICA



Work on Lesson 6 worksheet. If we have time, we will check near end of class.

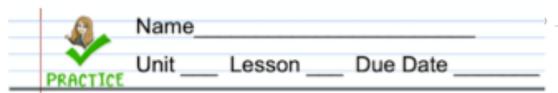
If done early, work in ALEKS or budget project.





# TETLE: Integers

Date	Lesson	Topic/Assignment
9/28		Integers and Abs Value. Video Notes
9/29		HW Practice WS
9/29	1	Abs Value Examples
9/29	ALL	Operations with Integers Foldable
9/30	2	Add Integers Video Notes
10/1	2	Skills Practice WS
10/2	3	Subtract Integers Video Notes
10/2	3	Practice WS
10/6	3	Skills Practice WS
10/6	2&3	"Math Antics" Video Notes
10/7	4&5	Multiply and Divide Integers Video Notes
10/8	4&5	Skills Practice WS
10/8	4&5	Partner Activity
10/12	6	Graphing in the 4 Quadrants Notes and Examples
10/12	6	Skills and HW Practice WS
10/13	ALL	Chapter 2 Study Guide

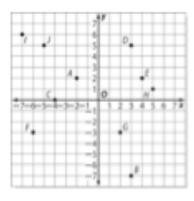


#### Lesson 6 Skills Practice

#### Graphing in Four Quadrants

Name the ordered pair for each point graphed at the right.

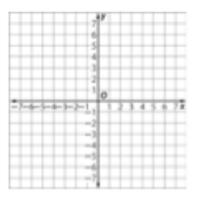
- 1. A
- 2. B
- 3. C
- 4. D
- 5. E
- 6. F



Graph and label each point on the coordinate plane. Name the quadrant in which each point is located.

- 11. K(1, 0)
- 12. L (0, 2)
- **13.** M (-2, 4) **14.** N (-5, -4)

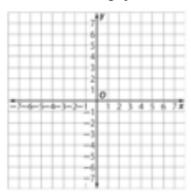
- **15.** *P* (6, -2) **16.** *Q* (7, -6)



21. Make a table of values and graph six sets of ordered pairs for the equation y = x - 4. Describe the graph.

Describe the graph:

y = x - 4				
x	у	(x, y)		

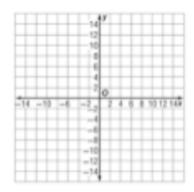


#### **Lesson 6 Homework Practice**

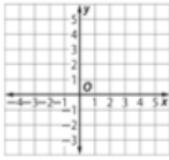
### **Graphing in Four Quadrants**

Graph and label each point on the coordinate plane. Name the quadrant in which each point is located.

2. 
$$B(-8, 6)$$



7. On the coordinate plane, draw a rectangle ABCD with vertices at A(1, 4), B(5, 4), C(5, 1), and D(1, 1). Then graph and describe the new rectangle formed when you subtract 3 from each coordinate of the vertices in rectangle ABCD.







#### **Lesson 6 Skills Practice**

#### **Graphing in Four Quadrants**

Name the ordered pair for each point graphed at the right.

- 1. A (-2, 2)
- 2. B (3, -7)
- 3. C (-4, 0)
- 4. D (3, 5)

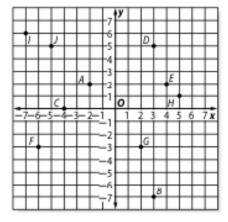
5. E (4, 2)

- 6. F (-6, -3)
- V~~~3

Path (5.4)

9.7 (-7,6)

M. (-5-5)

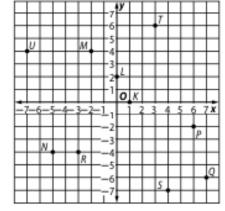


Graph and label each point on the coordinate plane. Name the quadrant in which each point is located.

- 11. K(1, 0) none
- 12. L (0, 2) none
- M (−2, 4) II
- 14. N(-5, -4) III
- 15. P (6, −2) **IV**
- 16. Q (7, −6) **IV**
- 13/2/~3/AU
- MARKETERS

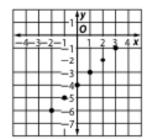
19. 1 (3,6) I

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Make a table of values and graph six sets of ordered pairs for the equation y = x − 4.
 Describe the graph.

y = x - 4				
x	у	(x, y)		
3	-1	(3, -1)		
2	-2	(2, -2)		
1	-3	(1, -3)		
0	-4	(0, -4)		
-1	-5	(-1, -5)		
-2	-6	(-2, -6)		



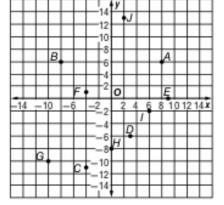
The points are along a line slanting up to the right, crossing the y-axis at -4 and the x-axis at 4.

#### **Lesson 6 Homework Practice**

#### **Graphing in Four Quadrants**

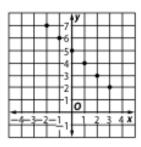
Graph and label each point on the coordinate plane. Name the quadrant in which each point is located.





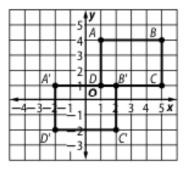
Make a table of values and graph six sets of ordered pairs for the equation y = 5 - x.
 Describe the graph.

y = 5 - x				
x	у	(x, y)		
3	2	(3, 2)		
2	3	(2, 3)		
1	4	(1, 4)		
0	5	(0, 5)		
-1	6	(-1, 6)		
-2	7	(-2, 7)		



The points are along a line slanting down to the right, crossing the y-axis at 5 and the x-axis at 5.

12. On the coordinate plane, draw a rectangle ABCD with vertices at A(1, 4), B(5, 4), C(5, 1), and D(1, 1). Then graph and describe the new rectangle formed when you subtract 3 from each coordinate of the vertices in rectangle ABCD.



The new rectangle is the same size as rectangle ABCD and is shifted to the left 3 units and down 3 units, with vertices at (-2, 1), (2, 1), (2, -2), and (-2, -2).