

Warm Up

back 16

$$-6 \quad \frac{-42}{7} \quad -6 \bullet 3 \quad 4 \bullet -8 \quad \frac{-144}{-12} \quad 12$$

$$-18 \quad -32$$

$$-8 + 11 \quad 5 - (-15)$$

$$3 \quad 20$$

$$-5 \bullet 3 + 4$$

$$\checkmark$$

$$-15 + 4$$

$$-11$$

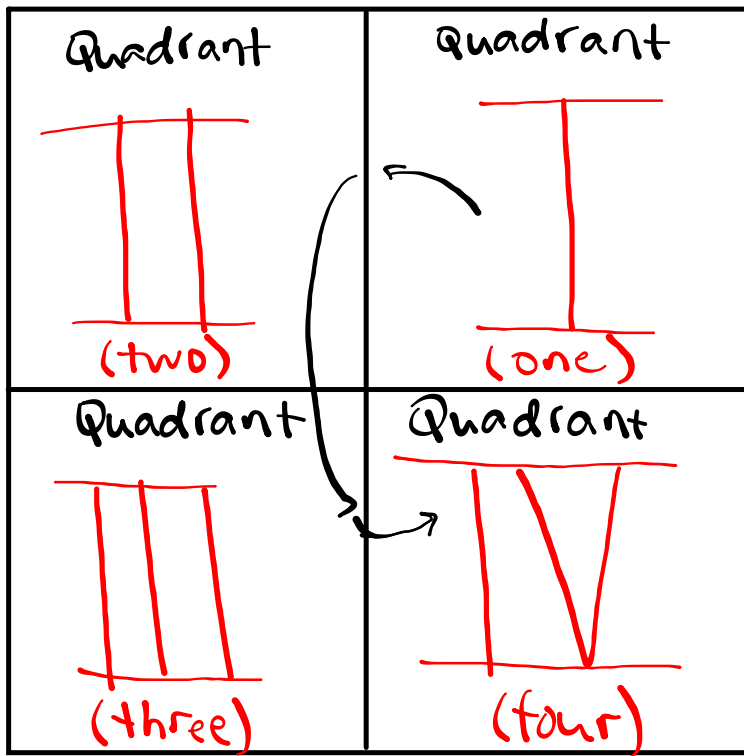
Why Is a Shooting Star Better Than a Hamburger?

For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the right.

5 3 8 1 10 6 9 2 4 7
F + I S M E T E O R

| | |
|--|--|
| <p>1 Find the quotient.</p> <p>a. $-40 \div 5$ -8</p> <p>b. $30 \div (-15)$ -2</p> <p>c. $-88 \div (-11)$ 8</p> <p>d. $-100 \div (-4)$ 25</p> <p>(J) -2 (S) -25 (B) -8 (Y) 25 (P) 8</p> | <p>6 Simplify.</p> <p>a. $\frac{-49}{7} + \frac{-64}{8}$ -15</p> <p>c. $\frac{-26}{-13} + \frac{-60}{5}$ -10</p> <p>b. $\frac{150}{-15} + \frac{-13}{-13}$ -9</p> <p>d. $\frac{-99}{-1} + \frac{0}{-99}$ 99</p> <p>(E) 10 (G) -9 (W) 99 (N) -15 (B) -10</p> |
| <p>2 Find the quotient.</p> <p>a. $\frac{-54}{9}$ -6</p> <p>c. $\frac{75}{-25}$ -3</p> <p>b. $\frac{-36}{-12}$ 3</p> <p>d. $\frac{0}{-10}$ 0</p> <p>(U) -3 (C) -6 (M) 0 (L) 3 (E) 6</p> | <p>7 Evaluate if $x = -2, y = -6$.</p> <p>a. $\frac{xy}{-3}$ -4</p> <p>c. $\frac{-9x}{y}$ -3</p> <p>b. $\frac{8y}{x}$ 24</p> <p>d. $\frac{144}{-xy}$ -12</p> <p>(D) 24 (L) -3 (N) -4 (R) 15 (T) -12</p> |
| <p>3 Find the quotient.</p> <p>a. $-48 \div (-3)$ 16</p> <p>b. $-36 \div 18$ -2</p> <p>c. $180 \div (-10)$ -18</p> <p>d. $900 \div 450$ 2</p> <p>(D) -2 (H) 2 (T) 18 (A) -18 (F) 16</p> | <p>8 Evaluate if $k = 3, n = -8$.</p> <p>a. $\frac{kn}{2}$ -12</p> <p>c. $\frac{96}{-kn}$ 4</p> <p>b. $\frac{k+n}{-5}$ 1</p> <p>d. $\frac{9n}{4k}$ -6</p> <p>(S) 1 (A) -6 (E) 4 (I) 6 (U) -12</p> |
| <p>4 Simplify.</p> <p>a. $\frac{150}{-2}$ -75</p> <p>c. $\frac{-24+9}{-8+3}$ 3</p> <p>b. $\frac{-7500}{-75}$ 100</p> <p>d. $\frac{-24}{-8} + \frac{9}{3}$ 6</p> <p>(K) 6 (E) -75 (N) 3 (O) -6 (K) 100</p> | <p>9 Solve mentally.</p> <p>a. $\frac{x}{7} = -6$ -42</p> <p>c. $\frac{360}{q} = -36$ -10</p> <p>b. $\frac{b}{-3} = -14$ 42</p> <p>d. $\frac{-64}{m} = 4$ -16</p> <p>(D) -10 (P) -42 (T) 16 (S) -16 (N) 42</p> |
| <p>5 Simplify.</p> <p>a. $\frac{-13+1}{3}$ -4</p> <p>c. $\frac{-20-25}{-15}$ 3</p> <p>b. $\frac{(-15)(-4)}{-6}$ -10</p> <p>d. $\frac{100 - (-20)}{30}$ 4</p> <p>(A) 3 (I) -3 (S) 4 (U) -10 (O) -4</p> | <p>10 Solve mentally.</p> <p>a. $8y = -56$ -7</p> <p>b. $-3p = -63$ 21</p> <p>c. $80 \div u = 2$ 40</p> <p>d. $80 \div (-v) = 2$ -40</p> <p>(B) 21 (K) 40 (N) -40 (G) -7 (M) -21</p> |

$80 \div -(-40) = 2$



DEFINITIONS:

Coordinate Plane:
Two Intersecting
number lines

X-Axis:
horizontal
number line

Y-Axis:
vertical
number line

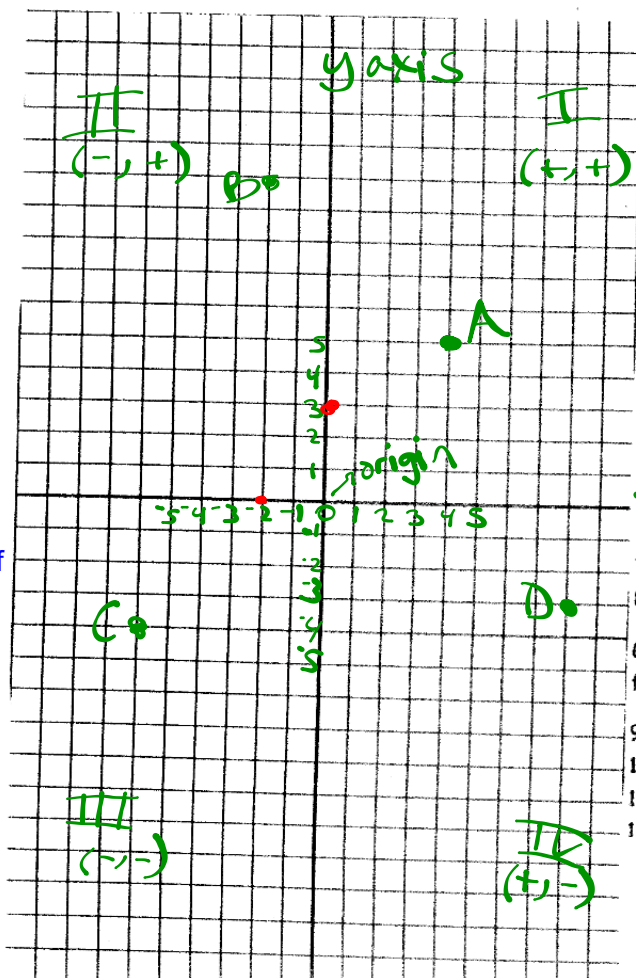
Quadrant:
One of four
sections on a
coordinate plane

Origin:
Intersection of
x, y axis

Ordered Pair:
a pair of numbers
, location on
(x,y)

X-Coordinate:
graph
first number in
ordered pair

Y-Coordinate:
Second number
in ordered pair



EX:

1. Label the X and Y axis
2. Label the Origin
3. Label Quadrants I, II, III, IV
4. Label the signs in each Quadrant (+,-); (+,+); (-,-); (-,+)

Plot and label the following points

5. A(4, 5)
6. B(-2, 10)

x axis

7. C(-6, -4)
8. D(8, -3)

Give the coordinates of the following points

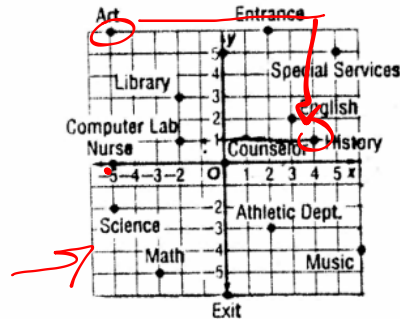
9. E
10. F
11. G
12. H

$(0, 3)$
 $(-2, 0)$

3-3 Practice: Word Problems

The Coordinate Plane

SCHOOL For Exercises 1-4, use the coordinate plane at the right. It shows a map of the rooms in a junior high school.



| | |
|---|---|
| <p>1. Thalia is in the room located at $(-2, 1)$. What room is she in? Describe in words how to get from the origin to this point.</p> <p><i>C.L</i> <i>2 left 1 up</i></p> | <p>2. Thalia's next class is 8 units to the right and 5 units down on the map from where she is now. In what room is Thalia's next class? Find the ordered pair that represents the location of that room.</p> <p><i>music</i> <i>(6, -4)</i></p> |
| <p>3. Tyrone is in the Art room, but his next class is in the History room. Give Tyrone directions on how to get to the History room.</p> <p><i>right 5 down</i></p> | <p>4. On the map, which classrooms are located in the third quadrant? Describe the coordinates of <u>all points in the third quadrant</u>.</p> <p><i>Science (-, -)</i> <i>Math</i></p> |
| <p>5. NEIGHBORHOOD Delsin made a map of his neighborhood in such a way that each intersection is a point on a coordinate plane. Right now, Delsin stands at point $(-4, -3)$. Give the ordered pair of where he will be if <u>moves 5 units to the right and 7 units up</u> on the map.</p> <p><i>(1, 4)</i></p> | <p>6. NEIGHBORHOOD Refer to Exercise 5. In which quadrant is Delsin when he is done walking? Describe this quadrant.</p> <p><i>I (t, t)</i></p> |

Quiz

After Quiz begin the picture graph

OR finish classwork

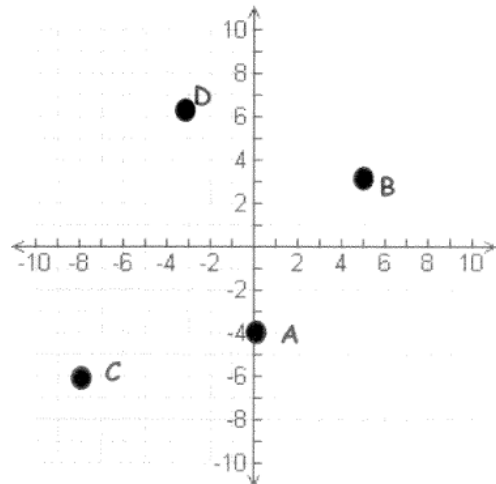
Name _____

Coordinate Plane

- Write the ordered pairs and identify the quadrant for the following points.

Ordered Pair , Quadrant

- A _____
- B _____
- C _____
- D _____

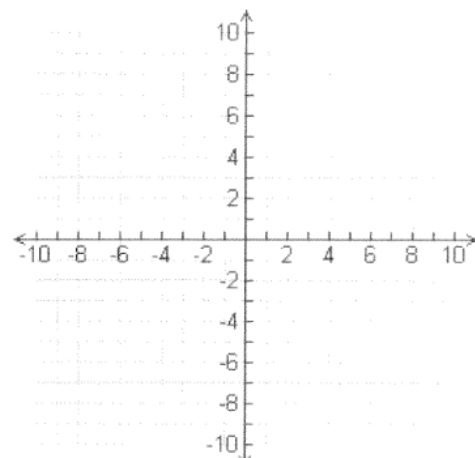


- Label the attached graph using the terms in the words bank.

| WORD BANK | | |
|-------------|--------------|------------|
| X axis | y axis | Quadrant I |
| Quadrant II | Quadrant III | |
| Quadrant IV | origin | |

- Graph the following ordered pairs on the coordinate plane to the right.

- A (-8, 0)
- B (4, -7)
- C (0, 10)
- D (-3, -5)



- What is the horizontal distance from point A to point B?

