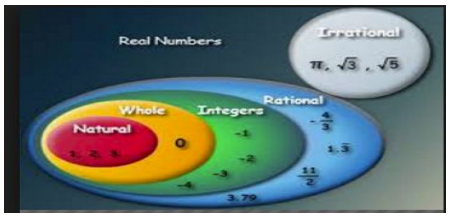
Unit 11 Review Answer Key



1. Use the diagram to classify :

   .25 **Rational #**

   ¾ **Rational #**

2. What is I -4 X 2 I (I I is supposed to be the absolute value symbol)

   I-4x2I

   I-8I

   8

3. Draw a number line labeled - 8 to 8. Show the absolute value of I -3I on the number line?

-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

*

4. Identify which numbers are whole numbers, integers, or rational numbers
   A. -6 **Rational Number and an Integer**
   B. -3.24 **Rational Number**
   C. 4 **Whole Number, Integer, and Rational Number**

5. Draw a number line and model -9 + 5

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

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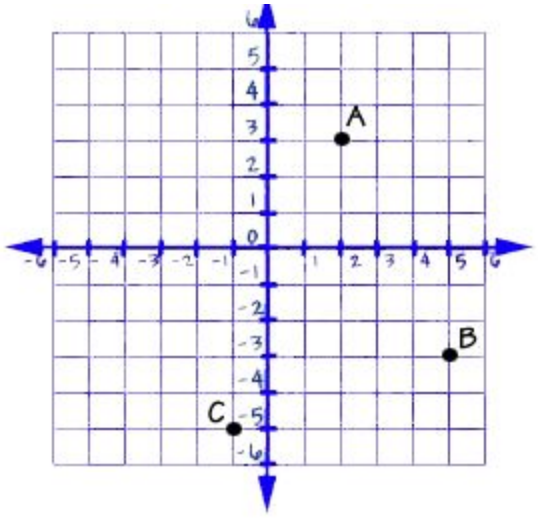
6. The opposite of -3 = **3** and I -3I = **3**

7. Name the opposite of 2: **-2**
   Name the | -8 | **8**

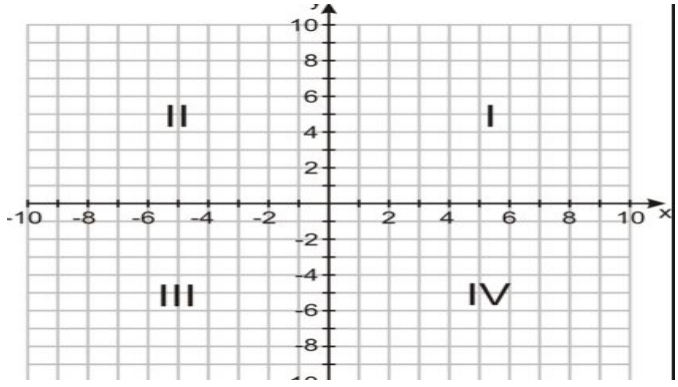


8. Write the ordered pair for each point.
   A - **2,3**
   B - **5,-3**
   C - **-1,-5**

9. The number 0 can be classified as which of the following:

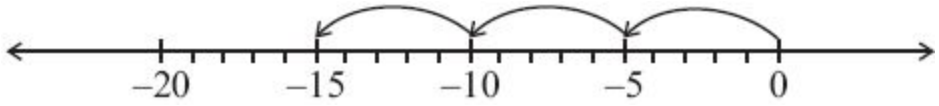
Real, rational, irrational, integer, whole number, counting number

10. In which quadrant would the ordered pair (-4,-8) be graphed?



(-4, -8) - III

11. Which expression does the model represent?



3 x -5 = - 15

12. Solve.

-56 / 8 = **-7**

13. Order the decimals from greatest to least.

1.005, 1.505, 1.005, 1.055

1.505, 1.055, 1.005, 1.005

1.005	**3**
1.505	**1**
1.005	**3**
1.055	**2**

14. Alex went to the movies with three friends and each of them wanted popcorn and a drink. Because the movie theaters realized they charged way too much for these items, they put them on sale. You could now buy:

- Popcorn - 3 for $7.50
- Drinks - 5 for $5.00

How much would it cost Alex and his friends to buy 4 popcorns and 4 drinks?

2.50 $3\overline{)7.50}$
6
15
15
00

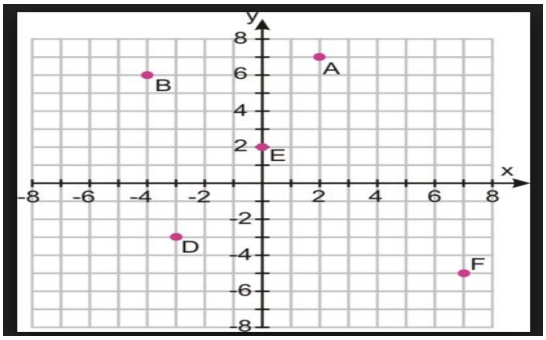
+ 1.00 $5\overline{)5.00}$

3.50
x4
14.00

Alex and his 3 friends spent $14 at the movies.

15. For each point below, list the coordinates and quadrant:

Point A - **2,7**
Point B - **-4,6**
Point C- **oops no C**
Point D- **-3, -3**
Point E- **0,2**
Point F- **7, -5**



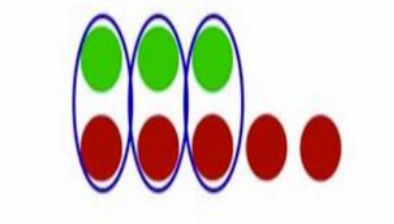
16. What is | 6 - 15 | ?

I -9I

9

17. If the green counters are positive and the red counters are negative, what is the equation for the following model?

3 -5
3 + -5
-2



(2 zero pairs are made)

18. What is | -2 x 8 x 2 | ?

I -16 x 2I

I -32I

32

19. Solve.

10 + (-1) + 6 + 0 + (-8)

9 +6+0+-8 **Don't forget order of operations**

15+0+-8

15+-8

7

20. List the following fractions in order from Greatest to Least.

2/3, 4/18, 6/9, 1/9 **Remember to compare fractions you must find a common denominator.**

Simplify any of the fractions if you can

4/18 ÷2/2 = 2/9

So I now have 2/3, 2/9, 6/9, 1/9

Yes you can simplify 6/9, but when you see that 4/18 becomes 2/9 I have 3 that have common denominators now, so no need to change 6/9.

2/3 x 3/3 = 6/9.

6/9, 2/9, 6/9, 1/9 **So G to L** **6/9, 6/9, 2/9, 1/9** **So 2/3, 6/9, 4/18, 1/9**