

Name _____

Date _____

Math 8A: Mrs. Roubos

Period _____

Take Home Review Quiz #2
SHOW ALL ORGANIZED WORK

DUE:

1. Solve for x and list the properties used for each step. Show all work.

(4)

$$-3x + 7 = -52$$

2. Solve for x and list the properties used for each step. Show all work.

(4)

$$\frac{4}{5}x - 3 = 13$$

3. Write a legend and an equation. Then solve for the unknown. Answer the question with a complete sentence.

(5)

The sum of two times a number and 3 times a number increased by one is -49. What is the number?

4. Evaluate: Show all organized work.

(5)

$$\frac{-3(15) - 3(4) + 1}{(20 - 30) \div 5} - 6 =$$

<p>5. Write an equivalent expression by using the commutative property. Then simplify your expression. (Hint: group like terms)</p> <p>$8w + 7 - 16w - 18$</p> <p>_____</p> <p>_____</p>	<p>6. Write an equivalent expression by using the distributive property. Then simplify your expression.</p> <p>$x(4 + 3) + 7 - 1$</p> <p>_____</p> <p>_____</p>
<p>7. Each side of a regular pentagon has a measure of $3x + 2$. Give the perimeter of this regular pentagon in terms of x.</p>	<p>8. Is $\sqrt{30}$ rational or irrational? Why?</p>
<p>9. Simplify the expression:</p> <p>$3(4x + 2) - (2x - 1)$</p>	<p>10. Circle the rational number.</p> <p>25.7612365..... -4.21345 -3π $\sqrt{90}$</p>
<p>11. Solve for x and list the properties used for each step. Show all work.</p> <p>$-2x + 5 + 6x + 1 = -18$</p>	<p>12. Solve for x and list the properties used for each step. Show all work.</p> <p>$12x - 4 - 7x - 4 = 2(x + 5)$</p>