Name:_____ Date:_____ Period:_____ Teacher:_____

**3-3 Weekly Homework**

1. The area of a square is 256 square units. What expression can be used to find the length of a side of the square?
   a. $\sqrt{256}$ b. $256 \div 2$ c. $256 \div 4$ d. $256^2$

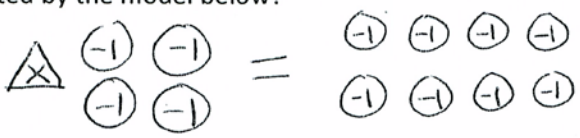
2. Which sequence follows the rule 4n + 3, where n represents the position of a term in the sequence?
   a. 7, 11, 15, 19, 233,...
   b. 1, 5, 9, 13, 16, ...
   c. 4, 7, 10, 13, 16,...
   d. Not here

3. Which rule can be used to find the value of any term in the sequence below where n represents the position of the term?

| Position | Value of Term |
|---|---|
| 1 | 10 |
| 2 | 17 |
| 3 | 24 |
| 4 | 31 |
| 5 | 38 |
| n | |

a. 10n b. n + 9 c. 5n + 5 d. 7n + 3

4. Which equation is represented by the model below?




a. $X + 4 = 8$ b. $x - 4 = -8$ c. $4x = -8$ d. $-4x = 8$

5. Kyle recorded the morning low temperature and the afternoon high temperature in the chart below. What was the change in temperature from the morning low to the afternoon high?

| Morning Low | Afternoon High |
|---|---|
| $-3^0F$ | 21°F |

6. Which situation matches the equation below?

**X – 23.04 = 1.96**

a. Greg swam 1.96 miles in one day. He swam a total of 23.04 miles in that month. How far did Greg swim each day?
b. Rachel deposited $23.04 at 1.96% interest . How much interest did Rachel earn after one year?
c. Mr. Dempsey purchased $23.04 in groceries. If he received $1.96 in change, how much money did he give the cashier?
d. Ted earned $ 23.04 less than William. If Ted worked 1.96 hours, what was the hourly wage?

7. Simplify the following expression.

3 $(4 + 2)^2 \div 4 \times 3$

8. Draw a number line model to solve the problem below. Be sure to put a box around your final answer.

$(-4) + 5 + (-2) + (-3)$

9. Change the following fraction to a decimal and percent.

$\frac{3}{8}$

10. Tonya is making cookies for the drama club. Each batch needs $2\frac{3}{5}$ cups of sugar. If she is going to make $1\frac{1}{2}$ batches of cookies, how many cups of sugar will she need?