Practice for the SBAC: Thursday, 05/12/16

Domain #4: Expressions and Equations

(Relevant Units: Unit 2 – Expressions of Integers, Unit 6 – Equations and Inequalities, Unit 10 - Algebraic Expressions)

1.

Select **all** equations that have x = 3 as a solution.

$$x + 7 = 10$$

$$3 + x = 3$$

$$x \cdot 3 = 1$$

$$4 \cdot x = 12$$

2.

Ms. Stone buys groceries for a total of \$45.32. She now has \$32.25 left.

Which equation could be used to find out how much money Ms. Stone had before she bought the groceries?

$$45.32x = $32.25$$

$$(x - $45.32 = $32.25)$$

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$$x + $45.32 = $32.25$$

$$x + $32.25 = $45.32$$

3.

In the morning, Emily studied 40 minutes for a math exam. Later that evening, Emily studied for x more minutes. Enter an **equation** that represents the total number of minutes, y, Emily studied for the math exam.



4.

Select **all** the expressions that are equivalent to 8(t + 4).

- 8t + 32
- 4t + 4 + 4t
- (8+t)+(8+4)
- $(8 \times t) + (8 \times 4)$

5.

The formula $C = \frac{5}{9}(F - 32)$ is used to convert the temperature in degrees Fahrenheit (F) to the temperature in degrees Celsius (C).

Enter the temperature in degrees Celsius (C) equal to 113 degrees Fahrenheit (F).

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1 2 3	
4 5 6	
7 8 9	
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