

Name: _____

Date: _____

AU1: HW #3 – Multi-Step Equations

Class: _____

Directions: Solve the following equations, show the check when asked.

1. $-5c + 9c = -20$

Check:

2. $36 = 6b - 6 + b$

3. $\frac{2}{3}g + \frac{1}{2}g = 14$

4. $6(7k - 10) = 24$

Check:

5. $4(g + 2) + 8g = 56$

6. $6(2k + 5) - 3k = 66$

7. Two angles form a complementary pair (sum is 90°), one angle is $3x - 10$ the other angle is $x + 8$. Using an equation determine the measure of each angle.
8. If a number is added to itself and the sum is multiplied by 2, the product is 4. What is the number?

Determine whether the following number sentences are TRUE or FALSE.

9. $(123 + 54) \cdot 4 = 123 + (54 \cdot 4)$
10. $xy = -2$ if $x = -3$ & $y = \frac{2}{3}$

11. $-1\frac{7}{9} \div -4\frac{4}{11}$

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- $$\begin{array}{ll} a \times b = b & a = \underline{\hspace{2cm}} \\ a - a = b & b = \underline{\hspace{2cm}} \\ a + c = 5 & c = \underline{\hspace{2cm}} \end{array}$$

- Fill in the empty circles with **A** or **C** and the empty rectangle with the missing expression to complete the diagram.

