## 8th Grade Quiz Lessons 1.8, 1.9, 2.7, 2.8

Short Answer: For each of the algebraic equations, solve the equation. Make sure to show all of your work and check your answers.

1. Solve 
$$x + 27 = 23$$

5. Solve 
$$-38 = 6 - 2x$$

2. Solve 
$$-9 + x = 41$$

6. Solve 
$$108 = 27 - 9x$$

3. Solve 
$$x + \frac{11}{12} = \frac{215}{12}$$

7. Solve 
$$14s = 238$$

4. Solve 
$$-9.4 = y - 18.2$$

8. Solve 
$$9.4p = 47$$

9. Solve 
$$\frac{p}{6} = 30$$

13. Solve 
$$\frac{v}{9} + 8 = 7$$

10. Solve 
$$\frac{t}{17.8} = -17.6$$

14. Solve 
$$\frac{y-5}{3} = 12$$

11. Solve 
$$4x - 3 = 17$$

12. Solve 
$$\frac{7}{10}w = -\frac{1}{14}$$

Extra Credit: Showing all work, solve the following:

$$-4^{2}(-8x - 18) - \left(\frac{1}{3^{-2}}\right)(7x + 12) - 78 = 0$$