NAME:\_\_\_\_\_

Hour:\_\_\_\_\_

## Solving Equations Study Guide

Solve. Show ALL your work.

1. 2 + 6z = 5 + 3z2. 2(h - 8) - h = h - 16

3.  $7 = \frac{x}{4}$  4.  $-\frac{z}{5} + 4 = 3$ 

5. -2(5v + 3) = 5v + 24

6. When Betty attempts to solve the equation  $4x + 32 = 8(\frac{1}{2}x - 4)$ , her last step shows 32 = -32. Is Betty correct? Why or why not? Show your work and Explain.

7. 
$$3w + 4 - w = 2(w - 2) + w$$
  
8.  $7y + 9 = 7y - 6$ 

9. 
$$3p - 1 = 5(p - 1) - 2(7 - 2p)$$

10. 
$$4.7x + 3.8 = 13.2$$
   
11.  $-4x - 9 = -5 - 6x$ 

$$12.3(y-5)+2 = 5 13.4(y+2) = 32$$

14. Tomas has saved \$204 to purchase a new smartphone that costs \$500. He intends to earn the rest of t he money he needs by doing odd jobs at \$8 per hour.

Solve the equation 8h + 204 = 500 to find how many hours, h, Tomas will have to work in order to have enough money to purchase the phone.

15. -6y + 14 + 4y = 32