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#### Algebra

Solving Equations

Name: \_\_\_\_\_

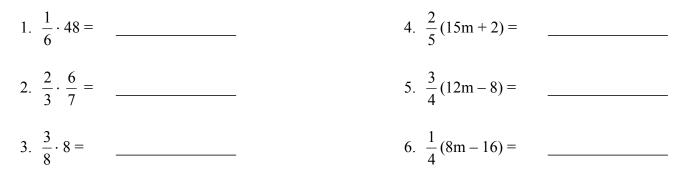
Period:\_\_\_\_\_

### **Steps for Solving Equations**

- 1. Remove Parenthesis
- 2. Combine Like Terms (on both sides of equal sign)
- 3. Move variable to one side
- 4. Undo Addition and/or Subtraction
- 5. Undo Multiplication and/or Division

\*\* If the variable cancels out, the equation will either be an Identity (meaning that its true for ALL values of the variable), or it will have No Solution.

#### Stuff I'm supposed to know....



# Solve. SHOW WORK!

7. 3x = 18 8. 3w + 10 = 22 9. -8m = 32

10. 
$$\frac{4}{5}$$
 m = 8 11. 2m - 6 = 10 12.  $\frac{2}{3}$  x = 8

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13. 
$$2x = 2x + 1$$
 14.  $3x - 9 = 3(x - 3)$ 

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15. 
$$-7 + 9(y + 2) = 4y - 2(4 - 3y)$$
  
16.  $-5 = \frac{1}{3}m + \frac{2}{9}m$ 

17. 
$$9x - 6 - 12x + 5 = -7 - 4x$$
  
18.  $2(5x + 4) = 3(2x + 1) + 4x$ 

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19. 
$$10 = \frac{-m}{5} + 2$$
 20.  $-6p + 9 - p = -4p - 3 - 3p + 12$ 

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21. 8m + 2(m + 4) = 5(m - 4) 22. 3x + 12 = 3x - 8

23. 
$$-0.38 + 5.6m = 0.18$$

24. 
$$\frac{1}{3}(9m+12) = m-12$$