**Solving One-Step Equations**

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

**Directions:** Write an equation to represent each relationship described below.

1. Fourteen is 4 more than *y.* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. *x* minus 12 is 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 30 is half of s. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.) The quotient of *t* and 5 is 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.) Six times *n* is 48. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions:** Solve to find the value of the variable in the following equations.

6.) 12 = 8 + *y* 7.) $\frac{c}{3}$= 9

8.) *r* – 7 = 23 9.) 2*x* = 18

10.) $\frac{m}{4}$= 3 11.) 17 = *x* + 4

12.) *m* -17 = 92 13.) 6*t* = 24

14.) $\frac{h}{6}$= 7 15.) 8*x* = 56

16.) 108= y + 13 17.) *y* – 24 = 32

18.) 9*h* = 63 19.) $\frac{x}{9}$ = 8

20.) Write an equation of your own using words. (#1-#5)Then, write it as an algebraic equation (like #6-19) and solve to prove the value of the given variable.

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Solution: