

Name _____ Date _____

Solving Equations

Solve the following equations AND circle your answer.

*Remember to check your answers if you have time! 😊

1. $7x + 16 = -61$

2. $-40 = m - 16$

3. $8(y + 2) = 72$

4. $-52 = \frac{x}{6} + 7$

5. $-w + 4(w + 3) = 33$

6. $6h + 17 - 9h = -64$

7. $5(x - 1) = -7x + 5 + 2x$

8. $2(3m + 6) = 1 - 2(14 - 2m)$

9. $x = 6(a + y)$, solve for y

10. $5p + q = m$, solve for q

11. $\frac{5}{c} = \frac{b}{6}$, solve for c

12. $xy = \frac{w}{z}$, solve for w

13. A rectangular picture frame is to be 9 in. longer than it is wide. Breanna uses 94 in. of oak to frame the entire perimeter of the picture. What is the width of the frame?

a) Define your variables (tell what they are).

b) Set up an algebraic equation to represent the perimeter. Then solve it. **SHOW ALL WORK!**

14. Using an algebraic equation, find three consecutive integers whose sum is 141. **SHOW ALL WORK!**