

6.3.6 ~ Solve 2-step equations

Example: $4x + 7 = 31$

Step 1. Undo the addition or subtraction by doing the inverse operation.

☺ Remember ~ what you do to one side of the equal sign, you must do to the other!

$$\begin{array}{r} 4x + 7 = 31 \\ \underline{-7 \quad -7} \\ 4x \quad = 24 \end{array}$$

Step 2. Undo the multiplication or division by doing the inverse operation.

☺ Remember ~ what you do to one side of the equal sign, you must do to the other!

$$\begin{array}{r} \underline{4x = 24} \\ \underline{4 \quad 4} \\ x = 6 \end{array}$$

Name _____

Date _____

6.3.6 Two-step Equation Worksheet

Directions: solve each equation. Use mental math to check the solution.

1. $7m + 8 = 71$

11. $3n - 8 = 4$

2. $\frac{y}{7} + 6 = 11$

12. $2n - 3 = 9$

3. $12x + 2 = 146$

13. $\frac{n}{5} - 4 = 11$

4. $\frac{m}{9} - 17 = 21$

14. $\frac{z}{2} + 1 = 9$

5. $2a - 1 = 19$

15. $2y + 16 = 10$

6. $\frac{c}{9} - 8 = 17$

16. $3n + 2 = 12$

7. $4f + 11 = 29$

17. $4n - 8 = 5$

8. $13n - 9 = 17$

18. $\frac{n}{2} + 5 = 15$

9. $\frac{e}{5} - 14 = 8$

19. $5v - 42 = 73$

10. $4w - 26 = 82$

20. $3d - 13 = 11$

6.3.6 Quiz

1.) $8n + 7 = 31$

2.) $9n - 9 = 9$

3.) $n/2 - 10 = 6$

4.) $15 = 4m - 5$

5.) $3 = 2 + v/4$