

NAME _____ Date _____ Period _____

Directions: Solve each multi-step equation. Check your work.

1. $8 = \frac{x}{4} + 4$

2. $10x - 5 = -5$

3. $3(x + 1) = 9$

4. $\frac{v+9}{3} = 8$

5. $0.5n - 10 = 4$

6. $\frac{1}{5}y + 1 = 6$

7. $8n + 7 = -31$

8. $-12 = 4(n - 2)$

9. $\frac{1}{2}(6y - 2) = 2$

10. $-9x - 13 = -103$

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Directions: Solve each multi-step equation. Check your work.**ANSWER KEY**

$$1. 8 = \frac{x}{4} + 4$$
$$x = 16$$

$$2. 10x - 5 = -5$$
$$x = 0$$

$$3. 3(x + 1) = 9$$
$$x = 2$$

$$4. \frac{v+9}{3} = 8$$
$$v = 15$$

$$5. 0.5n - 10 = 4$$
$$n = 28$$

$$6. \frac{1}{5}y + 1 = 6$$
$$y = 25$$

$$7. 8n + 7 = -31$$
$$n = 4.75$$

$$8. -12 = 4(n - 2)$$
$$n = -1$$

$$9. \frac{1}{2}(6y - 2) = 2$$
$$y = 1$$

$$10. -9x - 13 = -103$$
$$x = -10$$