

Name:

Score: Date:

Multi-Step Equations Worksheet

Solve each equation. Show your work.

1 $12a + 6a = -6$

2 $0 = -4n - 3n$

3 $-6 = -(x + 2)$

4 $2q - 4 = -9 + q$

5 $4(2x - 2) - 6 = 4 + 2x$

6 $-3(1 + 4r) = -3$

7 $-7 = \frac{r}{-6} + 12$

8 $\frac{b - 12}{-4} = 8$

9 $1 - \frac{a}{5} = -3$

10 $16 = -4(-4x - 4)$

11 $3x(2 + 4) = -72$

12 $13x - 3x + 6 - x = 87$

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Multi-Step Equations Worksheet

Answers

1 $12a + 6a = -6$

$$a = -\frac{1}{3}$$

2 $0 = -4n - 3n$

$$n = 0$$

3 $-6 = -(x + 2)$

$$x = 0$$

4 $2q - 4 = -9 + q$

$$q = -5$$

5 $4(2x - 2) - 6 = 4 + 2x$

$$x = 3$$

6 $-3(1 + 4r) = -3$

$$r = 0$$

7 $-7 = \frac{r}{-6} + 12$

$$r = 114$$

8 $\frac{b - 12}{-4} = 8$

$$b = -20$$

9 $1 - \frac{a}{5} = -3$

$$a = 20$$

10 $16 = -4(-4x - 4)$

$$x = 0$$

11 $3x(2 + 4) = -72$

$$x = -4$$

12 $13x - 3x + 6 - x = 87$

$$x = 9$$