

Name: .....

Date: .....

## Multi-Step Linear Equations Worksheet

Solve the given equations.

1  $-3v - 4(4v - 8) = 3(-8v - 1)$

2  $5 + 4a = 9a - 5$

3  $0.4x + 9.2 = 10$

4  $-(x + 3) + \frac{3}{4}x + 5 = 8$

5  $6(2x + 3) = 3(2x + 1) - 2(3x + 2)$

6  $16.3k + 19.2 + 7.5k = -64.1$

7  $-\frac{2}{9}(18x - 6)$

8  $-(x + \frac{3}{10}) = 8$

9  $3 - 4(2m - 5) = 71$

10  $-3 - (a - 2) = 7a + 15$

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# Multi-Step Linear Equations Worksheet

## Answers

1  $-3v - 4(4v - 8) = 3(-8v - 1)$

$$v = -5$$

2  $5 + 4a = 9a - 5$

$$a = 2$$

3  $0.4x + 9.2 = 10$

$$x = 2$$

4  $-(x + 3) + \frac{3}{4}x + 5 = 8$

$$x = -24$$

5  $6(2x + 3) = 3(2x + 1) - 2(3x + 2)$

$$x = -1\frac{7}{12}$$

6  $16.3k + 19.2 + 7.5k = -64.1$

$$k = -3.5$$

7  $-\frac{2}{9}(18x - 6)$

$$4x + \frac{4}{3}$$

8  $-(x + \frac{3}{10}) = 8$

$$x = -8\frac{3}{10}$$

9  $3 - 4(2m - 5) = 71$

$$m = -6$$

10  $-3 - (a - 2) = 7a + 15$

$$a = -2$$