

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Two Step Equations With Decimal Worksheet

**Solve each two-step equation. Show your work clearly.**

1)  $3.5x + 2.7 = 13.7$

2)  $5.1y - 3.6 = 11.4$

3)  $2.8z + 1.2 = 9.6$

4)  $7.5 - 4.2a = 1.5$

5)  $0.75b + 1.25 = 4.75$

6)  $6.4c - 2.9 = 9.5$

7)  $1.9 + 0.5d = 6.4$

8)  $9.8 - 1.6e = 4.2$

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# Two Step Equations With Decimal Worksheet Answer key

**Solve each two-step equation. Show your work clearly.**

1)  $3.5x + 2.7 = 13.7$

- $3.5x = -2.7 + 13.7$
- $3.5x = 11.0$
- $x = 11.0 / 3.5$
- $x = 3.14$

2)  $5.1y - 3.6 = 11.4$

- $5.1y = 11.4 + 3.6$
- $5.1y = 15.0$
- $y = 15.0 / 5.1$
- $y = 2.94$

3)  $2.8z + 1.2 = 9.6$

- $2.8z = 9.6 - 1.2$
- $2.8z = 8.4$
- $z = 8.4 / 2.8$
- $z = 3.0$

4)  $7.5 - 4.2a = 1.5$

- $-4.2a = 1.5 - 7.5$
- $-4.2a = -6.0$
- $a = -6.0 / -4.2$
- $a = 1.43$

5)  $0.75b + 1.25 = 4.75$

- $0.75b = 4.75 - 1.25$
- $0.75b = 3.5$
- $b = 3.5 / 0.75$
- $b = 4.67$

6)  $6.4c - 2.9 = 9.5$

- $6.4c = 9.5 + 2.9$
- $6.4c = 12.4$
- $c = 12.4 / 6.4$
- $c = 1.94$

7)  $1.9 + 0.5d = 6.4$

- $0.5d = 6.4 - 1.9$
- $0.5d = 4.5$
- $d = 4.5 / 0.5$
- $d = 9.0$

8)  $9.8 - 1.6e = 4.2$

- $-1.6e = 4.2 - 9.8$
- $-1.6e = -5.6$
- $e = -5.6 / -1.6$
- $e = 3.5$