

Answers with work shown

One-Step Equations

Solve each equation.

1) $26 = 8 + v$

$$\begin{array}{r} -8 \quad -8 \\ \hline 18 = v \\ = v \end{array}$$

$v = 18$

2) $3 + p = 8$

$$\begin{array}{r} -3 \quad -3 \\ \hline p = 5 \end{array}$$

3) $15 + b = 23$

$$\begin{array}{r} -15 \quad -15 \\ \hline b = 8 \end{array}$$

4) $-15 + n = -9$

$$\begin{array}{r} +15 \quad +15 \\ \hline n = 6 \end{array}$$

5) $m + 4 = -12$

$$\begin{array}{r} -4 \quad -4 \\ \hline m = -16 \end{array}$$

6) $x - 7 = 13$

$$\begin{array}{r} +7 \quad +7 \\ \hline x = 20 \end{array}$$

7) $m - 9 = -13$

$$\begin{array}{r} +9 \quad +9 \\ \hline m = -4 \end{array}$$

8) $p - 6 = -5$

$$\begin{array}{r} +6 \quad +6 \\ \hline p = 1 \end{array}$$

9) $v - 15 = -27$

$$\begin{array}{r} +15 \quad +15 \\ \hline v = -12 \end{array}$$

10) $n + 16 = 9$

$$\begin{array}{r} -16 \quad -16 \\ \hline n = -7 \end{array}$$

11) $-104 = 8x$

$-13 = x$

$x = -13$

12) $14b = -56$

$b = -4$

14) $10n = 40$

$n = 4$

13) $-6 = \frac{b}{18} \cdot 18$

$-108 = b$

$b = -108$

$n = 4$

$$15) \frac{v}{8} = 2 \cdot 8$$

$$v = 16$$

$$17) \frac{-15x}{-15} = \frac{0}{-15}$$
$$x = 0$$

divide

$$19) \frac{21}{-7} = \frac{-7n}{-7}$$

$$-3 = n$$

$$n = -3$$

$$21) \frac{-126}{14} = \frac{14k}{14}$$
$$-9 = k$$

$$k = -9$$

$$23) \frac{-16 + x}{+16} = \frac{-15}{+16}$$
$$x = 1$$

$$25) \frac{-17}{+15} = \frac{x - 15}{+15}$$
$$-2 = x$$

$$x = -2$$

multiply

$$27) \frac{v}{7} = 8 \cdot 7$$

$$v = 56$$

$$29) \frac{-7}{+7} + \frac{m}{+7} = \frac{8}{+7}$$
$$m = 15$$

$$16) 16 = \frac{k}{11} \cdot 11$$

$$176 = k$$

$$k = 176$$

$$18) \frac{-17x}{-17} = \frac{-204}{-17}$$
$$x = 12$$

$$20) \frac{m}{4} = -13 \cdot 4$$

$$m = -52$$

$$22) \frac{-143}{-11} = \frac{-11x}{-11}$$
$$13 = x$$

$$x = 13$$

$$24) \frac{-5}{18} = \frac{a}{18} \cdot 18$$
$$-90 = a$$

$$a = -90$$

$$26) \frac{n - 8}{+8} = \frac{-10}{+8}$$
$$n = -2$$

$$28) \frac{a + 11}{-11} = \frac{20}{-11}$$
$$a = 9$$

$$30) \frac{18 + m}{-18} = \frac{8}{-18}$$
$$m = -10$$