

One-Step Equations

Name
Date
Course

① $x - 5 = 3$

$$5 + x - 5 = 3 + 5$$

$$\boxed{x = 8}$$

② $6 = y + 4$

$$-4 + 6 = y + 4 - 4$$

$$\boxed{2 = y}$$

③ $2z = -8$

$$\frac{2z}{2} = \frac{-8}{2}$$

$$\boxed{z = -4}$$

④ $5 = \frac{x}{3}$

$$(3)5 = \frac{x}{3}(3)$$

$$\boxed{15 = x}$$

⑤ $y - 2 = -7$

$$2 + y - 2 = -7 + 2$$

$$\boxed{y = -5}$$

⑥ $8 = z + 11$

$$-11 + 8 = z + 11 - 11$$

$$\boxed{-3 = z}$$

⑦ $-7x = 8$

$$\frac{-7x}{-7} = \frac{8}{-7}$$

$$\boxed{x = -\frac{8}{7}}$$

⑧ $\frac{y}{-2} = 6$

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

$$\boxed{y = -12}$$

⑨ $z - 8 = -6$

$$8 + z - 8 = -6 + 8$$

$$\boxed{z = 2}$$

⑩ $-4 = x + 3$

$$-3 - 4 = x + 3 - 3$$

$$\boxed{-7 = x}$$

⑪ $-18 = -9y$

$$\frac{-18}{-9} = \frac{-9y}{-9}$$

$$\boxed{2 = y}$$

⑫ $\frac{z}{-4} = -9$

$$(-4)\frac{z}{-4} = -9(-4)$$

$$\boxed{z = 36}$$

⑬ $x + 1 = -9$

$$-1 + x + 1 = -9 - 1$$

$$\boxed{x = -10}$$

⑭ $-100 = y - 3$

$$3 - 100 = y - 3 + 3$$

$$\boxed{-97 = y}$$

⑮ $\frac{x}{9} = -11$

$$(9)\frac{x}{9} = -11(9)$$

$$\boxed{x = -99}$$

⑯ $-9 = 6y$

$$\frac{-9}{6} = \frac{6y}{6}$$

$$\frac{-9}{6} = y$$

$$\boxed{-\frac{3}{2} = y}$$

$$\begin{aligned} \textcircled{17} \quad z + 7 &= 10 \\ -7 + z + 7 &= 10 - 7 \\ \boxed{z = 3} \end{aligned}$$

$$\begin{aligned} \textcircled{18} \quad -5 &= x - 2 \\ 2 - 5 &= x - 2 + 2 \\ \boxed{-3 = x} \end{aligned}$$

$$\begin{aligned} \textcircled{19} \quad \frac{y}{-5} &= -8 \\ (-5)\frac{y}{-5} &= -8(-5) \\ \boxed{y = 40} \end{aligned}$$

$$\begin{aligned} \textcircled{20} \quad 4 &= 5z \\ \frac{4}{5} &= \frac{5z}{5} \\ \boxed{\frac{4}{5} = z} \end{aligned}$$

$$\begin{aligned} \textcircled{21} \quad y + 6 &= -5 \\ -6 + y + 6 &= -5 - 6 \\ \boxed{y = -11} \end{aligned}$$

$$\begin{aligned} \textcircled{22} \quad 4 &= x + 11 \\ -11 + 4 &= x + 11 - 11 \\ \boxed{-7 = x} \end{aligned}$$

$$\begin{aligned} \star \textcircled{23} \quad -8x &= -4 \\ \frac{-8x}{-8} &= \frac{-4}{-8} \\ \boxed{x = \frac{1}{2}} \end{aligned}$$

$$\begin{aligned} \textcircled{24} \quad \frac{y}{4} &= 2 \\ (4)\frac{y}{4} &= 2(4) \\ \boxed{y = 8} \end{aligned}$$

$$\begin{aligned} \textcircled{25} \quad 12 &= x + 9 \\ -9 + 12 &= x + 9 - 9 \\ \boxed{3 = x} \end{aligned}$$

$$\begin{aligned} \star \textcircled{26} \quad -1 &= -4 + z \\ 4 - 1 &= -4 + z + 4 \\ \boxed{3 = z} \end{aligned}$$

$$\begin{aligned} \textcircled{27} \quad -6x &= 12 \\ \frac{-6x}{-6} &= \frac{12}{-6} \\ \boxed{x = -2} \end{aligned}$$

$$\begin{aligned} \textcircled{28} \quad -8 &= \frac{z}{10} \\ (10)(-8) &= \frac{z}{10}(10) \\ \boxed{-80 = z} \end{aligned}$$

$$\begin{aligned} \star \textcircled{29} \quad -13 &= x + (-8) \\ 8 - 13 &= x + (-8) + 8 \\ \boxed{-5 = x} \end{aligned}$$

$$\begin{aligned} \textcircled{30} \quad y + 14 &= 8 \\ -14 + y + 14 &= 8 - 14 \\ \boxed{y = -6} \end{aligned}$$

$$\begin{aligned} \textcircled{31} \quad 2x &= -3 \\ \frac{2x}{2} &= \frac{-3}{2} \\ \boxed{x = -\frac{3}{2}} \end{aligned}$$

$$\begin{aligned} \textcircled{32} \quad 9 &= \frac{y}{-7} \\ (-7)9 &= \frac{y}{-7}(-7) \\ \boxed{-63 = y} \end{aligned}$$