

Review Exercise Set 6

Exercise 1: Solve.

$$4a - 19 = 21$$

Exercise 2: Solve.

$$-14 = 34 - 6z$$

Exercise 3: Solve.

$$3b + \frac{1}{5} = \frac{21}{5}$$

Exercise 4: Solve.

$$8x + 9 - 3x = 44$$

Exercise 5: Solve.

$$\frac{3}{4}y + 5 = 2$$

Review Exercise Set 6 Answer Key

Exercise 1: Solve.

$$\begin{aligned}4a - 19 &= 21 \\4a - 19 + 19 &= 21 + 19 \\4a &= 40 \\4a \div 4 &= 40 \div 4 \\ \mathbf{a} &= \mathbf{10}\end{aligned}$$

Exercise 2: Solve.

$$\begin{aligned}-14 &= 34 - 6z \\-14 - 34 &= 34 - 34 - 6z \\-48 &= -6z \\-48 \div -6 &= -6z \div -6 \\ \mathbf{8} &= \mathbf{z}\end{aligned}$$

Exercise 3: Solve.

$$\begin{aligned}3b + \frac{1}{5} &= \frac{21}{5} \\3b + \frac{1}{5} - \frac{1}{5} &= \frac{21}{5} - \frac{1}{5} \\3b &= \frac{20}{5} \\3b &= 4 \\3b \div 3 &= 4 \div 3 \\ b &= \frac{4}{3}\end{aligned}$$

Exercise 4: Solve.

$$\begin{aligned}8x + 9 - 3x &= 44 \\5x + 9 &= 44 \\5x + 9 - 9 &= 44 - 9 \\5x &= 35 \\5x \div 5 &= 35 \div 5 \\ \mathbf{x} &= \mathbf{7}\end{aligned}$$

Exercise 5: Solve.

$$\frac{3}{4}y + 5 = 2$$

$$\frac{3}{4}y + 5 - 5 = 2 - 5$$

$$\frac{3}{4}y = -3$$

$$4 \times \left(\frac{3}{4}y \right) = 4 \times (-3)$$

$$3y = -12$$

$$3y \div 3 = -12 \div 3$$

$$y = -4$$