

Name:

Date: Score:

Two-Step Equations with Fractions

Solve each equation.

① $\frac{1}{6}(x - 10) = 4$

② $\frac{x - 17}{5} = \frac{11}{15}$

③ $\frac{5}{4}(x + 3) = 8(x + 6)$

④ $\frac{3x + 8}{\frac{x}{2}} = 3$

⑤ $\frac{x + 3}{x - 2} = \frac{8}{14}$

⑥ $\frac{x - 2}{7} = \frac{8}{9}(x + 1)$

⑦ $\frac{5}{7} + \frac{2}{9}x = 15$

⑧ $\frac{2x - 8}{16} = \frac{1}{4}$

⑨ $\frac{1}{3}x + 2 = 4\frac{1}{9}x$

⑩ $\frac{2}{3} - \frac{3}{2}x + 4 = 0$

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Answers

$$\textcircled{1} \quad \frac{1}{6}(x - 10) = 4$$

$$x = 34$$

$$\textcircled{2} \quad \frac{x - 17}{5} = \frac{11}{15}$$

$$x = \frac{62}{3}$$

$$\textcircled{3} \quad \frac{5}{4}(x + 3) = 8(x + 6)$$

$$x = -\frac{59}{9}$$

$$\textcircled{4} \quad \frac{3x + 8}{\frac{x}{2}} = 3$$

$$x = -\frac{16}{3}$$

$$\textcircled{5} \quad \frac{x + 3}{x - 2} = \frac{8}{14}$$

$$x = -\frac{29}{3}$$

$$\textcircled{6} \quad \frac{x - 2}{7} = \frac{8}{9}(x + 1)$$

$$x = -\frac{74}{47}$$

$$\textcircled{7} \quad \frac{5}{7} + \frac{2}{9}x = 15$$

$$x = \frac{945}{49}$$

$$\textcircled{8} \quad \frac{2x - 8}{16} = \frac{1}{4}$$

$$x = 6$$

$$\textcircled{9} \quad \frac{1}{3}x + 2 = 4\frac{1}{9}x$$

$$x = \frac{9}{17}$$

$$\textcircled{10} \quad \frac{2}{3} - \frac{3}{2}x + 4 = 0$$

$$x = \frac{28}{9}$$