



Solving Multi Step Equations

Name _____

Score _____

MS:06

Solve each equation.

$$1) \quad \frac{n}{6} + \frac{2}{3} = -\frac{5}{6} - \frac{1}{2}n$$

$$2) \quad \frac{4\left(u - \frac{1}{2}\right)}{3} - \frac{3}{8} = -\frac{1}{4}$$

$$3) \quad \frac{4\left(h - \frac{1}{2}\right)}{\left(\frac{2}{5}\right)} - 6 = 4$$

$$4) \quad \frac{5}{6}(2y + 3) - \frac{3}{5} = \frac{9}{10}$$

$$5) \quad \frac{5k - \frac{1}{2}}{3} + 1 = \frac{2}{3}$$

$$6) \quad \frac{s}{4} - \frac{1}{2} + \frac{2}{3} + \frac{5}{8}s = \frac{s}{4} - \frac{5}{6}$$

$$7) \quad \frac{5\left(3a - \frac{1}{4}\right)}{3} = \frac{10}{21}$$

$$8) \quad 3\left(1 + \frac{x}{2}\right) + \frac{7}{8} = \frac{3}{4}$$



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Answer key

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Solve each equation.

$$1) \quad \frac{n}{6} + \frac{2}{3} = -\frac{5}{6} - \frac{1}{2}n$$

$$n = -\frac{9}{4}$$

$$2) \quad \frac{4\left(u - \frac{1}{2}\right)}{3} - \frac{3}{8} = -\frac{1}{4}$$

$$u = \frac{19}{32}$$

$$3) \quad \frac{4\left(h - \frac{1}{2}\right)}{\left(\frac{2}{5}\right)} - 6 = 4$$

$$h = \frac{3}{2}$$

$$4) \quad \frac{5}{6}(2y + 3) - \frac{3}{5} = \frac{9}{10}$$

$$y = -\frac{3}{5}$$

$$5) \quad \frac{5k - \frac{1}{2}}{3} + 1 = \frac{2}{3}$$

$$k = -\frac{1}{10}$$

$$6) \quad \frac{s}{4} - \frac{1}{2} + \frac{2}{3} + \frac{5}{8}s = \frac{s}{4} - \frac{5}{6}$$

$$s = -\frac{8}{5}$$

$$7) \quad \frac{5\left(3a - \frac{1}{4}\right)}{3} = \frac{10}{21}$$

$$a = \frac{5}{28}$$

$$8) \quad 3\left(1 + \frac{x}{2}\right) + \frac{7}{8} = \frac{3}{4}$$

$$x = -2\frac{1}{12}$$