



# Solving Multi Step Equations

Name \_\_\_\_\_

Score \_\_\_\_\_

MS:05

Solve each equation.

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

$$2) \quad \frac{5}{9} + 3z + \frac{5}{6}z + 2 = 0$$

$$3) \quad \frac{k}{4} + \frac{2}{3} = \frac{5}{6} + \frac{1}{2}k$$

$$4) \quad \frac{7}{3}(2n - 5) - \frac{3}{15} = \frac{11}{15}$$

$$5) \quad \frac{3\left(\frac{8}{3}c - 1\right)}{\left(\frac{7}{6}\right)} = \frac{24}{7}$$

$$6) \quad 4p - \frac{3}{4} = \frac{5}{8} - p$$

$$7) \quad \frac{\frac{2}{3}\left(u + \frac{1}{2}\right)}{\left(\frac{3}{4}\right)} = \frac{10}{21}$$

$$8) \quad \frac{4(t+3)}{\left(\frac{6}{7}\right)} = \frac{2(1-t)}{\left(\frac{8}{9}\right)}$$



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## Answer key

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Solve each equation.

$$1) \frac{\frac{1}{4}\left(g - \frac{2}{5}\right)}{3} + \frac{1}{2} = \frac{2}{3}$$

$$g = 2\frac{2}{5}$$

$$2) \frac{5}{9} + 3z + \frac{5}{6}z + 2 = 0$$

$$z = -\frac{2}{3}$$

$$3) \frac{k}{4} + \frac{2}{3} = \frac{5}{6} + \frac{1}{2}k$$

$$k = -\frac{2}{3}$$

$$4) \frac{7}{3}(2n - 5) - \frac{3}{15} = \frac{11}{15}$$

$$n = 2\frac{7}{10}$$

$$5) \frac{3\left(\frac{8}{3}c - 1\right)}{\left(\frac{7}{6}\right)} = \frac{24}{7}$$

$$c = \frac{7}{8}$$

$$6) 4p - \frac{3}{4} = \frac{5}{8} - p$$

$$p = \frac{11}{40}$$

$$7) \frac{\frac{2}{3}\left(u + \frac{1}{2}\right)}{\left(\frac{3}{4}\right)} = \frac{10}{21}$$

$$u = \frac{1}{28}$$

$$8) \frac{4(t+3)}{\left(\frac{6}{7}\right)} = \frac{2(1-t)}{\left(\frac{8}{9}\right)}$$

$$t = -\frac{141}{83}$$