



Solving Multi Step Equations

Name _____

Score _____

MS:12

Solve each equation.

1) $\frac{3}{5} - 2g + \frac{1}{2}g - 3 = 0$

2) $2.6(5n - 2) - 4.5 + 2(n + 3.5) = 0$

3) $2(x + 6) + \frac{3(1 + x)}{4} = -1$

4) $7\left(1 + \frac{a}{4}\right) + \frac{1}{4} = \frac{5}{6}$

5) $5(m - 1) + 12 = 6 - 4(2m + 5)$

6) $\frac{2(t + 4.5)}{3.6} - 6.2 = -9.7$

7) $\frac{3\left(\frac{7}{9}s - 1\right)}{\left(\frac{3}{4}\right)} = \frac{32}{9}$

8) $\frac{8 + 7q + 3(2 - 4q)}{13} = 8 + q$



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Answer key

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Solve each equation.

1) $\frac{3}{5} - 2g + \frac{1}{2}g - 3 = 0$

$$g = -1\frac{3}{5}$$

2) $2.6(5n - 2) - 4.5 + 2(n + 3.5) = 0$

$$n = 0.18$$

3) $2(x + 6) + \frac{3(1 + x)}{4} = -1$

$$x = -5$$

4) $7\left(1 + \frac{a}{4}\right) + \frac{1}{4} = \frac{5}{6}$

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

5) $5(m - 1) + 12 = 6 - 4(2m + 5)$

$$m = -1\frac{8}{13}$$

6) $\frac{2(t + 4.5)}{3.6} - 6.2 = -9.7$

$$t = -10.8$$

7) $\frac{3\left(\frac{7}{9}s - 1\right)}{\left(\frac{3}{4}\right)} = \frac{32}{9}$

$$s = 2\frac{3}{7}$$

8) $\frac{8 + 7q + 3(2 - 4q)}{13} = 8 + q$

$$q = -5$$