



Solving Multi Step Equations

Name _____

Score _____

MS:11

Solve each equation.

1) $-3.2(5p + 3.5) - 8 = -2.4$

2) $3 + \frac{z-1}{2} - 5z = 4(7 - z)$

3) $5y - 2 + 9(1 - y) = 10 - (y - 2) - 4y$

4) $\frac{8(b - 1.8)}{4} = \frac{4(2.6 - b)}{2}$

5) $\frac{3.2(4k - 1.75)}{2} - 3.6 = 6.4$

6) $-12 = -2(5 - 4t) - 3(t + 7)$

7) $\frac{u}{4} - \frac{1}{6} = \frac{1}{2} + \frac{5}{8}u$

8) $\frac{\frac{1}{2}\left(h - \frac{5}{8}\right)}{3} + \frac{3}{2} = \frac{3}{4}$



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Answer key

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Solve each equation.

1) $-3.2(5p + 3.5) - 8 = -2.4$

$$p = -1.05$$

2) $3 + \frac{z-1}{2} - 5z = 4(7-z)$

$$z = -51$$

3) $5y - 2 + 9(1 - y) = 10 - (y - 2) - 4y$

$$y = 5$$

4) $\frac{8(b - 1.8)}{4} = \frac{4(2.6 - b)}{2}$

$$b = 2.2$$

5) $\frac{3.2(4k - 1.75)}{2} - 3.6 = 6.4$

$$k = 2$$

6) $-12 = -2(5 - 4t) - 3(t + 7)$

$$v = 3\frac{4}{5}$$

7) $\frac{u}{4} - \frac{1}{6} = \frac{1}{2} + \frac{5}{8}u$

$$u = -1\frac{7}{9}$$

8) $\frac{\frac{1}{2}\left(h - \frac{5}{8}\right)}{3} + \frac{3}{2} = \frac{3}{4}$

$$h = -3\frac{7}{8}$$