

Multi-Step Equations | Decimals

Solve each equation.

1) $8(6.9c - 0.7 + 1.1c) = 7.2$

$c =$ _____

2) $8 + 1.7r = -2r - 4 - 0.3r$

$r =$ _____

3) $-7(y + 0.5) = 5.5 - 2y$

$y =$ _____

4) $5 = \frac{6k - 2.8}{k + 1.2}$

$k =$ _____

5) $3(9.3 - 1.6v) = 9(-0.7v + 3.8)$

$v =$ _____

6) $u - 8.1 = 4.3 - (u - 8)$

$u =$ _____

7) $\frac{7.5(2a - 2.2)}{3} = 10$

$a =$ _____

8) $9.6 - (8.2 + 0.5n) = 3.5n - 2.6$

$n =$ _____

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Answer key

Solve each equation.

1) $8(6.9c - 0.7 + 1.1c) = 7.2$

$c = \underline{\quad \mathbf{0.2} \quad}$

2) $8 + 1.7r = -2r - 4 - 0.3r$

$r = \underline{\quad \mathbf{-3} \quad}$

3) $-7(y + 0.5) = 5.5 - 2y$

$y = \underline{\quad \mathbf{-\frac{9}{5} \text{ or } -1\frac{4}{5}} \quad}$

4) $5 = \frac{6k - 2.8}{k + 1.2}$

$k = \underline{\quad \mathbf{8.8} \quad}$

5) $3(9.3 - 1.6v) = 9(-0.7v + 3.8)$

$v = \underline{\quad \mathbf{4.2} \quad}$

6) $u - 8.1 = 4.3 - (u - 8)$

$u = \underline{\quad \mathbf{10.2} \quad}$

7) $\frac{7.5(2a - 2.2)}{3} = 10$

$a = \underline{\quad \mathbf{3.1} \quad}$

8) $9.6 - (8.2 + 0.5n) = 3.5n - 2.6$

$n = \underline{\quad \mathbf{0.5} \quad}$