

One-Step Equations | Addition and Subtraction

Solve each equation.

1) $r + 5 = 10$

$r = \underline{\hspace{2cm}}$

2) $-15 + n = -12$

$n = \underline{\hspace{2cm}}$

3) $11 = y - 2$

$y = \underline{\hspace{2cm}}$

4) $8 = a - 4$

$a = \underline{\hspace{2cm}}$

5) $p + 3 = -9$

$p = \underline{\hspace{2cm}}$

6) $t - 1 = 7$

$t = \underline{\hspace{2cm}}$

7) $13 = 13 + u$

$u = \underline{\hspace{2cm}}$

8) $-6 = 4 + v$

$v = \underline{\hspace{2cm}}$

Multi-Step Equations | Fractions

Solve each equation.

1) $5\left(2b + \frac{1}{3}\right) = 7b + 11$

$b = \underline{\hspace{2cm}}$

2) $\frac{9}{7}(1+x) - \frac{6}{7}x + 1 = 1$

$x = \underline{\hspace{2cm}}$

3) $\frac{7}{8}t - \frac{4}{7} = \frac{5}{6}t - \frac{3}{4}$

$t = \underline{\hspace{2cm}}$

4) $\frac{8}{5} + 3z = 10z - 4$

$z = \underline{\hspace{2cm}}$

5) $\frac{3}{2}h - 10 = 4h$

$h = \underline{\hspace{2cm}}$

6) $\frac{3+4n}{4} = \frac{8}{4}n$

$n = \underline{\hspace{2cm}}$

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

$u = \underline{\hspace{2cm}}$

8) $6v + \frac{4}{9} = 4\left(\frac{1}{2} + v\right)$

$v = \underline{\hspace{2cm}}$

Two-Step Inequalities

Solve each inequality.

1) $7 + 2x \geq 13$

2) $\frac{a-5}{6} \leq -1$

3) $3t - 1 < 5$

4) $9(q + 1) \leq -18$

5) $17 < 12 - v$

6) $\frac{11w}{10} > 11$

7) $-14 + 7m < 7$

8) $4 \geq -16 - r$

9) $13 + \frac{n}{2} \leq 11$

10) $\frac{3c}{5} > 1$

Two-Step Inequalities

Name: _____

Solve each inequality.

1) $8 + 5u < \frac{9u}{2}$

2) $3m + 4 \leq \frac{12}{5}$

3) $11 + r < \frac{14r}{3}$

4) $\frac{1}{20} \leq \frac{b+1}{2}$

5) $\frac{n}{5} + \frac{2}{7} < 1$

6) $\frac{w-6}{8} \geq -\frac{1}{3}$

7) $\frac{6p}{7} - 2 > 16$

8) $-\frac{1}{3} > \frac{s}{4} - 2$

9) $9y - \frac{1}{4} \geq 3$

10) $\frac{1}{9}a - 18 > -24$

Multi-Step Equations

Name: _____

Solve each equation.

1) $4(2v - 6 + v) = 12$

$v = \underline{\hspace{2cm}}$

2) $\frac{6(a - 4)}{a} = 10$

$a = \underline{\hspace{2cm}}$

Bonus.

3) $5 = \frac{6m + 10}{m - 3}$

$m = \underline{\hspace{2cm}}$

4) $8(d + 2) = 4d - 12$

$d = \underline{\hspace{2cm}}$

5) $-5(t - 12) + 7 = -8$

$t = \underline{\hspace{2cm}}$

6) $9 - (11 - 4k) = 2k$

$k = \underline{\hspace{2cm}}$

7) $10z + 14 = 11 + 5z - 7$

$z = \underline{\hspace{2cm}}$

8) $-3(9p + 5) = 12$

$p = \underline{\hspace{2cm}}$