

# Solving Two-Step Inequalities

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Solve each inequality.

1)  $-3t + 5 > 17$

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2)  $-\frac{b}{9} + 4 \leq 18$

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3)  $13q - 7 \geq 12q$

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4)  $\frac{z + 10}{20} \geq 2$

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5)  $\frac{y - 8}{16} \leq 7$

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6)  $8m > 13 - m$

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7)  $-7 - 6u \geq -14$

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8)  $2(a + 11) < 16$

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9)  $-20 < -15 + \frac{v}{3}$

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10)  $19 \geq -1 + 5d$

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# Solving Two-Step Inequalities

Answer key

Solve each inequality.

1)  $-3t + 5 > 17$

$t < -4$

2)  $-\frac{b}{9} + 4 \leq 18$

$b \geq -126$

3)  $13q - 7 \geq 12q$

$q \geq 7$

4)  $\frac{z + 10}{20} \geq 2$

$z \geq 30$

5)  $\frac{y - 8}{16} \leq 7$

$y \leq 120$

6)  $8m > 13 - m$

$m > \frac{13}{9}$

7)  $-7 - 6u \geq -14$

$u \leq \frac{7}{6}$

8)  $2(a + 11) < 16$

$a < -3$

9)  $-20 < -15 + \frac{v}{3}$

$v > -15$

10)  $19 \geq -1 + 5d$

$d \leq 4$