

# Two-Step Inequalities

Choose the solution that describes each inequality.

1)  $7 + 3x \leq 10$

- a)  $(-\infty, 1)$       b)  $(-\infty, 1]$   
 c)  $(1, \infty)$       d)  $[1, \infty)$

2)  $6x + 2 < 14$

- a)  $(-2, \infty)$       b)  $(-\infty, 2)$   
 c)  $(-\infty, 2]$       d)  $[2, \infty)$

## Preview

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- a)  $(-\infty, 4)$       b)  $(-\infty, 4]$       a)  $(-\infty, 9)$       b)  $[9, \infty)$   
 c)  $[4, \infty)$       d)  $[-4, \infty)$       c)  $(9, \infty)$       d)  $[-9, \infty)$

9)  $\frac{x}{2} + 4 < 6$

- a)  $(4, \infty)$       b)  $(-\infty, 4]$   
 c)  $(-\infty, 4)$       d)  $[4, \infty)$

10)  $4x + 9 > 1$

- a)  $(-\infty, 2)$       b)  $(-\infty, -2)$   
 c)  $(-\infty, -2]$       d)  $(-2, \infty)$