

# Two-Step Inequalities

Choose the solution that describes each inequality.

1)  $\frac{x}{7} - 5 > 1$

- a)  $[42, \infty)$       b)  $(-\infty, 42)$   
 c)  $(-\infty, -42)$       d)  $(42, \infty)$

2)  $10x + 14 \leq 4$

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

## Preview

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- a)  $(-\infty, -8)$       b)  $(-\infty, 8]$       a)  $(-\infty, 3]$       b)  $(-3, \infty)$   
 c)  $[-8, \infty)$       d)  $(8, \infty)$       c)  $(-\infty, 3)$       d)  $[3, \infty)$

9)  $8 + 5x < 28$

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

10)  $\frac{x-7}{3} \geq 13$

- a)  $[46, \infty)$       b)  $(-\infty, 46]$   
 c)  $(-\infty, -46]$       d)  $[-46, \infty)$