

## Identifying Solutions

Two-step: S1

Choose the correct solution that best describes each inequality.

1)  $10 - 2x < 4$  or  $4x + 13 \geq 21$

- a)  $(-\infty, 2] \cup (3, \infty)$       b)  $(-\infty, 2) \cap [3, \infty)$   
 c)  $[2, \infty)$       d)  $(3, \infty)$

2)  $3 > 5x + 28$  and  $7x < x + 18$

- a)  $(-\infty, 3)$       b)  $(-5, 3)$   
 c)  $(-\infty, -5) \cup (3, \infty)$       d)  $(-\infty, -5)$

3)  $\frac{x+8}{5} \geq 4$  or  $3x - 16 > 5$

- a)  $(-\infty, 7] \cap [12, \infty)$       b)  $(-\infty, 7] \cup [12, \infty)$   
 c)  $(-\infty, 7] \cup (12, \infty)$       d)  $(-\infty, 7] \cap (12, \infty)$

4)  $7x + 18 < 25$  or  $15x - 11 > 34$

- a)  $(-\infty, 3)$       b)  $(3, \infty)$   
 c)  $(-\infty, 3) \cup (3, \infty)$       d)  $[1, 3)$

5)  $6 \leq 4x - 2 < 14$

- a)  $(-\infty, 2] \cap (4, \infty)$       b)  $(-\infty, 2] \cup (4, \infty)$   
 c)  $(-\infty, 4)$       d)  $(4, \infty)$

6)  $45 + 5x \leq 2x$

- a)  $(-\infty, -15) \cup [15, \infty)$   
 b)  $(-\infty, -15) \cup (15, \infty)$   
 c)  $(-\infty, -15) \cup [15, \infty)$   
 d)  $(-\infty, -15) \cup (15, \infty)$

7)  $13x - 7 \geq 32$  or  $27 < 5x$

- a)  $[3, \infty)$       b)  $(-\infty, 3] \cup (6, \infty)$   
 c)  $(-\infty, 3) \cup [6, \infty)$       d)  $(-\infty, 3] \cup (6, \infty)$

8)  $\frac{x+5}{3} > -7$

- a)  $[-26, 5]$       b)  $(-\infty, 5]$   
 c)  $[-26, 5)$       d)  $(-\infty, 5]$

9)  $2x - 6 \leq 8$  and  $\frac{x+11}{3} > 4$

- a)  $(-\infty, 7]$       b)  $(-\infty, 7) \cap [1, \infty)$   
 c)  $(1, 7]$       d)  $[1, \infty)$

10)  $\frac{x}{6} + 7 > 15$  or  $4x + 18 \geq 34$

- a)  $[4, \infty)$       b)  $(48, \infty)$   
 c)  $(-\infty, 4) \cup (48, \infty)$       d)  $(-\infty, 48) \cap (4, \infty)$

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