

## Identifying Solutions

One-step: S2

Choose the correct solution that best describes each inequality.

1)  $7x > 42$  and  $6x \leq 54$

- a)  $(-\infty, 6] \cup (9, \infty)$       b)  $(6, 9]$   
 c)  $(-\infty, 9]$                       d)  $(6, \infty)$

2)  $\frac{x}{8} \geq 3$  or  $\frac{x}{5} \geq 7$

- a)  $[24, \infty)$                       b)  $(-\infty, 24]$   
 c)  $[35, \infty)$                       d)  $(-\infty, 24) \cup (35, \infty)$

3)  $12x < -36$  or  $x + 10 < 27$

- a)  $(-\infty, 3) \cup (5, \infty)$                       b)  $(9, 12]$   
 c)  $(-\infty, -3) \cup (5, \infty)$                       d)  $(9, \infty)$

5)  $20 \leq 4x \leq 32$

- a)  $(-\infty, 5] \cup [8, \infty)$                       b)  $(-\infty, 6) \cup [18, \infty)$   
 c)  $[5, \infty)$                                       d)  $(18, \infty)$

7)  $16 + x < 11$  or  $5x \leq 15$

- a)  $(-\infty, -5) \cup [11, \infty)$                       b)  $(-\infty, 4]$   
 c)  $(-\infty, 11]$                                   d)  $[3, 4]$   
 d)  $(-\infty, -11) \cup (5, \infty)$                       c)  $[3, \infty)$

9)  $13x > 39$  and  $x - 15 \geq 7$

- a)  $(-\infty, 3) \cup [22, \infty)$                       b)  $[22, \infty)$   
 c)  $(-\infty, -22) \cap [3, \infty)$                       d)  $(3, \infty)$

10)  $2x > 4$  or  $x - 7 > 18$

- a)  $(-\infty, 2) \cup (25, \infty)$                       b)  $(-\infty, 2) \cap (25, \infty)$   
 c)  $(2, \infty)$                                       d)  $(25, \infty)$

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