

Identifying Solutions

ES3

Choose the correct solution that best describes each inequality.

1) $4 + 2x > 18$

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

2) $6x - 3 \geq 21$

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

3) $3x - 21 \geq 6$

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

- b) $(-\infty, 11]$
 d) $(11, \infty)$

5) $\frac{x}{2} + 1 \leq 9$

- a) $(16, \infty)$
 c) $[16, \infty)$

- b) $(-\infty, 25]$
 d) $[25, \infty)$

7) $9x + 8 < 44$

- a) $(4, \infty)$
 c) $(-\infty, 4)$

- b) $(-\infty, 48)$
 d) $[48, \infty)$

9) $\frac{x+12}{3} \leq 7$

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

10) $10x - 5 > 15$

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

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- d) $[-4, \infty)$

- c) $(48, \infty)$