Name : _____

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 ≥ 21

   a) $[4, \infty)$ b) $(4, \infty)$

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

3) 3x – 21 ≥ 6

   a) $(-\infty, 9]$ b) $(-\infty, 11]$

   c) $[9, \infty)$ d) $(11, \infty)$

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

   a) $(16, \infty)$ b) $(-\infty, 25]$

   c) $[16, \infty)$ d) $[25, \infty)$

7) 9x + 8 < 44

   a) $(4, \infty)$ b) $(-\infty, 48)$

   c) $(-\infty, 4)$ d) $[-4, \infty)$ c) $(48, \infty)$ d) $[48, \infty)$

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

   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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