

Identifying Solutions - MCQ

One-step: S2

Choose the correct solution that best describes each inequality.

1) $|x - 11| < 18$

- a) $(-7, 29)$ b) $(-\infty, -29) \cup (-7, \infty)$
 c) $(-\infty, -29) \cap (-7, \infty)$ d) $(-\infty, \infty)$

2) $|x + 12| > 5$

- a) $[-17, 7]$ b) $(-\infty, -7) \cup (17, \infty)$
 c) $(-\infty, -17) \cup (-7, \infty)$ d) No solution

3) $\frac{|x|}{4} \leq -6$

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

4) $|20x| > 40$

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

5) $|x - 13| \geq 7$

- a) $(-\infty, -20] \cup [-6, \infty)$ b) $(-\infty, -20] \cup [20, \infty)$
 c) $(-\infty, 6] \cap [20, \infty)$ d) $(-\infty, 6] \cup [20, \infty)$

7) $|x + 17| \leq 20$

- a) $(-\infty, -3)$ b) $(-\infty, -10] \cup [10, \infty)$
 c) $(-\infty, -37] \cup [3, \infty)$ d) $[-37, 3]$

9) $|24x| > 24$

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

10) $|x - 8| < 9$

- a) $(-1, 17)$ b) $(-17, 1)$
 c) $(-\infty, -1) \cup (-17, \infty)$ d) No solution

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