

Identifying Solutions - MCQ

One-step: S3

Choose the correct solution that best describes each inequality.

1) $\frac{|x|}{15} \geq 1$

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

2) $|x| - 6 \leq 2$

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

3) $|x + 10| > 15$

- a) $(-\infty, -5) \cap (25, \infty)$ b) $(-\infty, -5) \cup (25, \infty)$
 c) $(-\infty, -25) \cup (5, \infty)$ d) $(-\infty, -25) \cap (5, \infty)$

4) $16 + |x| < -18$

- b) $[-34, 34]$
 d) No solution

5) $|-5x| \leq 35$

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

7) $|x + 17| < 20$

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

9) $-|x - 2| > 5$

- a) $(-\infty, -7)$ b) $(3, \infty)$
 c) $(-\infty, -7) \cup (3, \infty)$ d) No solution

10) $|-x| + 19 \leq 22$

- a) $(-\infty, -3] \cup [3, \infty)$ b) $[-3, 3]$
 c) $(-3, 3)$ d) No solution

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- b) $(-\infty, -4)$
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7) $|x + 17| < 20$

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

- b) $(-\infty, -2) \cap (2, \infty)$
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