

Identifying Solutions - MCQ

Two-step: S3

Choose the correct solution that best describes each inequality.

1) $|7x - 21| \leq 49$

- a) $(-\infty, -4] \cap [-10, \infty)$ b) $(-\infty, 10) \cap (4, \infty)$
 c) $(-\infty, 10] \cap [-4, \infty)$ d) $(-\infty, 10) \cap (-4, \infty)$

2) $-|24x| - 20 \geq 52$

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

3) $|11x + 22| < 44$

- a) $(-6, \infty)$
 c) $(-\infty, 2)$

b)
 d)

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- b) $(-\infty, 1) \cup (-1, \infty)$
 d) $(1, \infty)$

5) $\frac{|x - 9|}{5} \geq 10$

- a) $(-\infty, -59] \cup [41, \infty)$
 c) $(-\infty, 41] \cup [59, \infty)$

b)
 d)

- b) $(-\infty, 23] \cap [9, \infty)$
 d) No solution

7) $|8x - 24| > 72$

- a) $(-\infty, -6) \cup (12, \infty)$ b) $(-\infty, 6) \cup (-12, \infty)$
 c) $(6, \infty)$ d) No solution

8) $|-x - 12| - 2 < 1$

- a) $(-\infty, -9)$ b) $(-\infty, 15) \cap (-9, \infty)$
 c) $(15, \infty)$ d) $(-\infty, -9) \cap (-15, \infty)$