Name : _____

Score : _____

## Identifying Solutions - MCQ

One-step: S1

Choose the correct solution that best describes each inequality.

1) $|6x| > 24$

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

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

2) $13 - |x| < 19$

   a) $(-\infty, 6) \cap (-6, \infty)$     b) $(-\infty, -6) \cup (6, \infty)$

   c) $(-\infty, -6)$     d) No solution

3) $|x + 7| \geq 4$

   a) $(-\infty, 3] \cup [11, \infty)$     b

   c) $(-\infty, 11] \cup [3, \infty)$     d

4) $\dfrac{|x|}{\ } < 8$

   b) $(-\infty, -16] \cup [16, \infty)$

   d) $[-16, \infty)$

5) $|x| + 9 \leq 10$

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

   c) $(-\infty, -1]$     d

   b) $(-\infty, 7] \cup [17, \infty)$

   d) $(-\infty, 7] \cup [-17, \infty)$

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7) $|18x| < -36$

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

   c) $(-\infty, -2) \cup (2, \infty)$     d) No solution

   b) $(-5, \infty)$

   c) $(-\infty, -27)$     d) $(-\infty, -27) \cup (-5, \infty)$

9) $|x| - 20 \geq 5$

   a) $(-\infty, -25] \cup [25, \infty)$     b) $(-\infty, -25]$

   c) $[25, \infty)$     d) No solution

10) $\dfrac{|x|}{3} \leq 4$

   a) $(-\infty, 12]$     b) $[-12, \infty)$

   c) $(-\infty, 12] \cap [-12, \infty)$     d) $(-\infty, -12] \cup [12, \infty)$