

Identifying Solutions

MS2

Choose the correct solution that best describes each inequality.

1) $96 < -8x$

- a) $[12, \infty)$ b) $(-12, \infty)$
 c) $(-\infty, -12)$ d) $[-12, \infty)$

2) $x - 37 \leq 12$

- a) $(49, \infty)$ b) $(-\infty, 49]$
 c) $(-\infty, 49)$ d) $[49, \infty)$

3) $15 > 45 + x$

- a) $(-30, \infty)$
 c) $(-\infty, -30)$

- b) $(-84, \infty)$
 d) $[-84, \infty)$

5) $x + 17 < -5$

- a) $(-\infty, -22)$
 c) $(22, \infty)$

- b) $(8, \infty)$
 d) $(-\infty, 8)$

7) $9x \geq 108$

- a) $(-\infty, 12]$
 c) $(-\infty, 12)$

- d) $[12, \infty)$

- c) $(\infty, 42)$

- b) $(-\infty, 42]$
 d) $(-42, \infty)$

9) $-9 \geq \frac{x}{4}$

- a) $(-\infty, 36]$ b) $(-\infty, 36)$
 c) $(-\infty, -36)$ d) $(-\infty, -36]$

10) $-78 \leq 2x$

- a) $(-39, \infty)$ b) $[-39, \infty)$
 c) $(-\infty, 39]$ d) $(-\infty, 39)$

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