

Identifying Solutions

MS3

Choose the correct solution that best describes each inequality.

1) $14 > \frac{x}{2} + 29$

- a) $(-\infty, 30)$ b) $(-30, \infty)$
 c) $(-\infty, -30)$ d) $[30, \infty)$

2) $-34 \leq -7 + 3x$

- a) $(9, \infty)$ b) $(-\infty, 9]$
 c) $(-\infty, 9)$ d) $[-9, \infty)$

3) $5x + 41 < -4$

- a) $(-9, \infty)$
 c) $(-\infty, -9]$

- b) $(-\infty, 6]$
 d) $[6, \infty)$

5) $31 \geq 2x + 5$

- a) $(-\infty, -13]$
 c) $(-\infty, 13]$

- b) $(60, \infty)$
 d) $(-\infty, 60)$

7) $16 \leq \frac{x+6}{2}$

- a) $(-\infty, -26]$
 c) $(-\infty, 26)$

- b) $(-\infty, 43]$
 d) $(-43, \infty)$

9) $8x - 49 > -9$

- a) $[5, \infty)$ b) $(5, \infty)$
 c) $(-\infty, 5)$ d) $(-\infty, 5]$

10) $7 \geq \frac{x-2}{3}$

- a) $(-\infty, -23]$ b) $(23, \infty)$
 c) $(-\infty, 23)$ d) $(-\infty, 23]$

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d) $[26, \infty)$ c) $(-\infty, -43)$

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