

Identifying Solutions

One-step: S2

Choose the correct solution that best describes each inequality.

1) $7x > 42$ and $6x \leq 54$

a) $(-\infty, 6] \cup (9, \infty)$ b) $(6, 9]$

c) $(-\infty, 9]$ d) $(6, \infty)$

2) $\frac{x}{8} \geq 3$ or $\frac{x}{5} \geq 7$

a) $[24, \infty)$ b) $(-\infty, 24]$

c) $[35, \infty)$ d) $(-\infty, 24) \cup (35, \infty)$

3) $12x < -36$ or $x + 1$

a) $(-\infty, 3) \cup (5, \infty)$

c) $(-\infty, -3) \cup (5, \infty)$

27

b) $(9, 12]$

d) $(9, \infty)$

5) $20 \leq 4x \leq 32$

a) $(-\infty, 5] \cup [8, \infty)$

c) $[5, \infty)$

≥ 2

b) $(-\infty, 6] \cup [18, \infty)$

d) $(18, \infty)$

7) $16 + x < 11$ or $5x \leq$

a) $(-\infty, -5) \cup [11, \infty)$

c) $(-\infty, 11]$

d) $(-\infty, -11) \cup (5, \infty)$

$15x \geq 45$

b) $(-\infty, 4]$

d) $[3, 4]$

9) $13x > 39$ and $x - 15 \geq 7$

a) $(-\infty, 3) \cup [22, \infty)$ b) $[22, \infty)$

c) $(-\infty, -22) \cap [3, \infty)$ d) $(3, \infty)$

10) $2x > 4$ or $x - 7 > 18$

a) $(-\infty, 2) \cup (25, \infty)$ b) $(-\infty, 2) \cap (25, \infty)$

c) $(2, \infty)$ d) $(25, \infty)$

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