

Identifying Solutions

One-step: S1

Choose the correct solution that best describes each inequality.

1) $x + 8 \geq 17$ or $x - 3 \leq 5$

- a) $(-\infty, 8] \cup [9, \infty)$ b) $(-\infty, 9) \cap (8, \infty)$
 c) $(-\infty, 8]$ d) $(9, \infty)$

2) $8x < 16$ and $x - 6 \leq 3$

- a) $(-\infty, 9] \cap (-2, \infty)$ b) $(-\infty, 2)$
 c) $(-\infty, 9]$ d) $(-\infty, 2) \cap [9, \infty)$

3) $6x < 42$ or $10x > 80$

- a) $(-\infty, 8) \cap (7, \infty)$
 c) $(8, \infty)$

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- b) $(-\infty, -11] \cup (10, \infty)$
 d) $[-11, \infty)$

5) $\frac{x}{4} > 8$ and $\frac{x}{8} < 6$

- a) $(-\infty, 32) \cup (-\infty, 48)$
 c) $(-\infty, 48) \cap (32, \infty)$

$+ 9 > 18$

- b) $(9, \infty) \cap [3, \infty)$
 d) $(-\infty, 3] \cup (9, \infty)$

7) $20 \leq 5x \leq 30$

- a) $(-\infty, 4] \cup [6, \infty)$
 c) $[4, \infty)$

< -25

- b) $(-\infty, 6]$
 d) $(-\infty, -5) \cup [6, \infty)$

9) $12x \geq 36$ or $\frac{x}{7} > 3$

- a) $[3, \infty)$ b) $(-\infty, 21) \cap [3, \infty)$
 c) $(21, \infty)$ d) $(-\infty, 3] \cup (21, \infty)$

10) $20 + x \geq 11$ and $6x \leq 48$

- a) $(-\infty, 8] \cap [-9, \infty)$ b) $[-9, \infty)$
 c) $(-\infty, 8]$ d) $(-\infty, 8] \cup [-9, \infty)$

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