

Identifying Solutions

One-step: S3

Choose the correct solution that best describes each inequality.

1) $9x < 18$ or $\frac{x}{7} \geq 4$

- a) $(-\infty, 2) \cup [28, \infty)$ b) $(2, 28]$
 c) $(-\infty, 2)$ d) $[28, \infty)$

2) $3x \leq 18$ and $12x > 36$

- a) $(-\infty, 3) \cap (6, \infty)$ b) $(-\infty, 3] \cup (6, \infty)$
 c) $(3, 6]$ d) $(3, \infty)$

3) $\frac{x}{15} < 4$ and $\frac{x}{6} < 5$

- a) $(30, \infty)$
 c) $(-\infty, 60)$

$17 \geq 2$

- b) $[3, \infty)$
 d) $[3, 19)$

5) $10x > 50$ or $11x < 4$

- a) $(-\infty, 5) \cup (4, \infty)$
 c) $(-\infty, 4) \cup (5, \infty)$

7

- a) $(-\infty, 22) \cup [29, \infty)$
 b) $(-\infty, 22) \cap [-29, \infty)$

7) $5x \leq 30$ and $16x \geq$

- a) $(-\infty, 2] \cup [6, \infty)$
 c) $(-\infty, 2) \cap [6, \infty)$

< 57

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- d) $[2, \infty)$

- c) $[10, \infty)$ d) $(-\infty, 3) \cup (10, \infty)$

9) $24 < 4x < 28$

- a) $(-\infty, 6)$ b) $(-\infty, -6) \cap (7, \infty)$
 c) $(7, \infty)$ d) $(6, 7)$

10) $x + 3 > 46$ or $6x > 54$

- a) $(-\infty, 9) \cup (43, \infty)$ b) $(43, \infty)$
 c) $(9, \infty)$ d) $(-\infty, 43) \cup (9, \infty)$

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d) $[2, \infty)$

$x < 57$

b) $(-\infty, 3)$

c) $[10, \infty)$

d) $(-\infty, 3) \cup (10, \infty)$

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