

Identifying Solutions - MCQ

Multi-step: S2

Choose the correct solution that best describes each inequality.

1) $\frac{1}{4}(6x + 8) > 11$ or $3x - \frac{x}{2} < -15$

- a) $x < -6$ or $x > 6$ b) $x < -6$
 c) $x > -6$ d) $x > 6$

2) $6(4x - 23) \leq 54$ and $7(2 + 3x) > -49$

- a) $x < 8$ b) $x > -3$
 c) $x < 8$ and $x > -3$ d) $x \leq 8$ and $x > -3$

3) $2(5x + 18) > -84$ or

- a) $x \leq 14$
 c) $x \leq -12$ or $x > 14$

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- b) $-6 \leq x \leq 9$
 d) $x \geq 9$

5) $\frac{2x}{3} - \frac{x}{9} \leq 5$ and $1 -$

- a) $x \leq -4$
 c) $x \leq 9$ and $x \geq -4$

$3 \geq \frac{5x + 14}{8}$

- b) $x < 2$ or $x \geq 6$
 d) $x \leq 2$

7) $\frac{1}{3}(8x + 2) < 14$ or $91 > 13(12x - 5)$

- a) $x < -1$ b) $x < 1$
 c) $x < 1$ or $x > 5$ d) $x < 5$

8) $-4 < \frac{5x + 9}{4} \leq 6$

- a) $x > -5$ b) $-5 < x \leq 3$
 c) $-5 < x < 3$ d) $x \leq 3$

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