

Identifying Solutions - MCQ

Two-step: S2

Choose the correct solution that best describes each inequality.

1) $3 < 51 + 8x < 75$

- a) $x < -6$ b) $-6 < x < 3$
 c) $x < 3$ d) $-3 < x < 6$

2) $3 + 5x \geq 28$ and $\frac{4x}{3} + 1 \leq 9$

- a) $x \geq 5$ b) $5 \leq x < 6$
 c) $x \geq 5$ and $x \leq 6$ d) $x \geq 6$

3) $7 + 3x \geq 19$ or $4x > 12$

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

4) $45 > 3x + 2 > 17$

- b) $48 \leq x < 60$
 d) $x < 48$

5) $\frac{x-2}{7} \leq 3$ and $6x > 12$

- a) $10 \leq x < 23$
 c) $x < 10$

6) $\frac{x-9}{5} \geq 2$

- b) $x \leq 3$ or $x \geq 19$
 d) $x \leq -3$

7) $2x - 5 \geq 13$ and $4x < 20$

- a) $x \geq 9$ and $x < 11$
 c) $x \geq 9$ d) $x > 9$ and $x \leq 11$

8) $3x + 2 > 17$

- b) $x > 5$
 d) $x < 5$

9) $\frac{x}{9} + 10 > 13$ or $3x + 16 < 19$

- a) $x < 27$ b) $x > 27$
 c) $x < 1$ or $x > 27$ d) $x < 1$

10) $-24 < 2x - 4 < -10$

- a) $-10 < x < -3$ b) $x < -3$
 c) $x > -10$ d) $-3 < x < 10$

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Choose the correct solution that best describes each inequality.

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a) $x < -6$

b) $-6 < x < 3$

c) $x < 3$

d) $-3 < x < 6$

2) $3 + 5x \geq 28$ and $\frac{4x}{3} + 1 \leq 9$

a) $x \geq 5$

b) $5 \leq x < 6$

c) $x \geq 5$ and $x \leq 6$

d) $x \geq 6$

3) $7 + 3x \geq 19$ or $4x < 45$

a) $x \leq 4$ or $x \geq 9$

c) $x \geq 4$

4) $4x < 45$

b) $48 \leq x < 60$

d) $x < 48$

5) $\frac{x-2}{7} \leq 3$ and $6x < 42$

a) $10 \leq x < 23$

c) $x < 10$

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$\frac{x-9}{5} \geq 2$

b) $x \leq 3$ or $x \geq 19$

d) $x \leq -3$

7) $2x - 5 \geq 13$ and $4x < 44$

a) $x \geq 9$ and $x < 11$

c) $x \geq 9$

d) $x > 9$ and $x \leq 11$

$3x + 2 > 17$

b) $x > 5$

c) $x < 5$ or $x \geq 8$

d) $x < 5$

9) $\frac{x}{9} + 10 > 13$ or $3x + 16 < 19$

a) $x < 27$

b) $x > 27$

c) $x < 1$ or $x > 27$

d) $x < 1$

10) $-24 < 2x - 4 < -10$

a) $-10 < x < -3$

b) $x < -3$

c) $x > -10$

d) $-3 < x < 10$