

Name : _____

Score : _____

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) $(-\infty, 8) \cap (9, \infty)$
c) $(-\infty, 8]$ d) $(9, \infty)$

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

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

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

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

4) $14 \leq x + 25 < 35$

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

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

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

6) $10x \geq 30$ or $x + 9 > 18$

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

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

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

8) $9x \geq 54$ or $5x < -25$

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

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

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

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

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

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) $(-\infty, 8) \cap (9, \infty)$
 c) $(-\infty, 8]$ d) $(9, \infty)$

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

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

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

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

4) $14 \leq x + 25 < 35$

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

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

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

6) $10x \geq 30$ or $x + 9 > 18$

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

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

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

8) $9x \geq 54$ or $5x < -25$

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

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

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

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

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