

Name : \_\_\_\_\_

Score : \_\_\_\_\_

## Solving Compound Inequalities

Multi-step: S3

Solve each inequality.

1)  $-4 \leq \frac{3x+2}{10} < -1$

2)  $2(6x+8) < -32$  or  $\frac{5x-9}{7} \geq 3$

3)  $x + \frac{8x}{3} \geq -11$  and  $5(x-2) < 10$

5)  $-36 \geq 9(6x+14)$  or  $4(x-3) < 20$

4)  $\frac{-x+19}{13} \leq 2$

7)  $\frac{-x+15}{9} > 2$  or  $\frac{-x-7}{6} \leq -3$

8)  $-4 < \frac{x}{3} + x$  and  $-26 > 2(11x+9)$

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