

Name : _____

Solving Inequalities

Directions: In the following inequalities, solve for x . Show your steps and write your answer in the space provided.

1 $6 > -8 - \frac{(-7)}{7}$

2 $-2x + 10 \leq 100$

3 $5x - 2 \geq 4 + 3x$

4 $5p - 6 \leq 2p - 7$

5 $8q > q + 2$

6 $2(s + 1) - 3(s - 2) < s + 6$

7 $p - 2 \geq -5$

8 $5l + 3 \leq 2l + 2$

9 $3\left(t + \frac{2}{3}\right) > 5(2t + 5)$

10 $-22 \leq -7(v - 19)$

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Answer.

$$\boxed{1} \quad 6 > -8 - \frac{(-7)}{71}$$

$$\boxed{2} \quad -2x + 10 \leq 100$$

$$\boxed{3} \quad \frac{l > \frac{1}{14}}{5x - 2 \geq 4 + 3x}$$

$$\boxed{4} \quad \frac{x > -45}{5p - 6 \leq 2p - 7}$$

$$\boxed{5} \quad \frac{x \geq 3}{8q > q + 2}$$

$$\boxed{6} \quad \frac{p \leq -\frac{1}{3}}{2(s + 1) - 3(s - 2) < s + 6}$$

$$\boxed{7} \quad \frac{q > \frac{2}{7}}{p - 2 \geq -5}$$

$$\boxed{8} \quad \frac{s > 1}{5l + 3 \leq 2l + 2}$$

$$\boxed{9} \quad \frac{p \geq -3}{3\left(t + \frac{2}{3}\right) < 5(2t + 5)}$$

$$\boxed{10} \quad \frac{l \leq -\frac{1}{3}}{-22 \leq -7(v - 19)}$$

$$\frac{t > -\frac{23}{7}}$$

$$\frac{v \geq \frac{111}{7}}$$