

Solving Inequalities Worksheet Answer Key

Less Than Perfect

Solve the following inequalities.

1. $-11x < 121$

$$x > -11$$

2. $3(x + 2) - 2x \leq 4$

$$x \leq -2$$

3. $4y - 2 \leq 60$

$$y \leq \frac{31}{2}$$

4. $2z > 5 - z$

$$z > \frac{5}{3}$$

5. $4(u - 8) - 4 > 36$

$$u > 18$$

6. $4(x + 2(1 - x) + 4) \geq 8$

$$x \leq 4$$

7. $5(z + 4(1 - z) + 6) > 9$

$$z < \frac{41}{15}$$

8. $3t - 4(2 - 4t) \leq 2(1 + 11t)$

$$t \geq \frac{-10}{3}$$

9. $3(x + 2) - 4(x - 4) \leq 9$

$$x \geq 13$$

10. $6(y - 9) + 4(y + 8) \geq 42$

$$y \geq \frac{32}{5}$$

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