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

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