

Lesson 5 Homework Practice

Inequalities

Determine which number is a solution of the inequality.

1. $32 + a > 44$; 11, 12, 13

2. $15 - x \leq 6$; 9, 8, 7

3. $28 + r \geq 60$; 32, 31, 30

4. $49 - h > 8$; 40, 41, 42

5. $16 - n \leq 1$; 13, 14, 15

6. $9 + j \geq 36$; 25, 26, 27

Is the given value a solution of the inequality?

7. $9 - g \geq 3$; $g = 5$

8. $42 + h < 53$; $h = 10$

9. $k - 22 \geq 20$; $k = 38$

10. $t + 12 > 70$; $t = 55$

11. $88 + m > 100$; $m = 11$

12. $12p \leq 76$; $p = 6$

13. **RAFFLE** The local Lions Club sold raffle tickets for a new golf cart. The sales for each week are given in the table. If more than 250 tickets are sold, then the Lions Club raised enough for the golf cart. Use the inequality $t > 250$, where t represents the number of tickets sold, to determine the weeks in which they raised enough money.

Week	Tickets Sold
1	248
2	315
3	296
4	210

14. **LAPS** The track coach records the number of laps the team runs each day for a week in the table to the right. If the team runs at most 10 laps each day, then they have to practice Saturday. Use the inequality $\ell \leq 10$, where ℓ represents the number of laps the team runs, to determine which days they did not run the required number of laps.

Day	Laps
Monday	8
Tuesday	10
Wednesday	12
Thursday	13
Friday	9