

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

Is the given value a solution of the inequality?

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

6. $42 + h < 53$; $h = 10$

7. $88 + m > 100$; $m = 11$

8. $12p \leq 76$; $p = 6$

9. **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

Lesson 6 Homework Practice

Write and Graph Inequalities

Write an inequality for each sentence.

10. More than 2,500 people attended the convention.

11. Her earnings were no more than \$64.

12. The winning 5K race time was less than 22 minutes.

13. An account balance is no more than \$500.

14. A maximum ceiling height of 8 feet was required.

15. A minimum number of 12 participants

Graph each inequality on a number line.

16. $x > 15$

17. $s < 6$

18. $b \geq 13$

19. $x < 23$

20. $b \leq 4$

21. $r \geq 5$

Lesson 7 Homework Practice

Solve One-Step Inequalities

Solve each inequality. Show Graph the solution on a number line.

22. $6x > 12$

23. $h - 4 > 9$

24. $s + 5 \leq 14$

25. $\frac{n}{4} \geq 3$

26. $\frac{b}{2} < 13$

27. $w + 18 \geq 30$

28. $14n \geq 56$

29. $\frac{s}{2} < 16$

30. TRANSPORTATION A certain minivan has a maximum carrying capacity of 1,200 pounds. The luggage weighs 150 pounds. Write and solve an inequality to find the maximum weight allowable for passengers.

31. DISCOUNTS To qualify for a store discount, Clay's soccer team must spend at least \$560 for new jerseys. The team needs 20 jerseys. Write and solve an inequality to represent how much the team should spend on each jersey to qualify for the discount.