

Solving One-Step Inequalities

Solve. Write the whole numbers that make each inequality true.

1. $3a < 15$

2. $b + 12 \leq 19$

3. $c - 7 \geq 0$

4. $\frac{d}{4} > 1$

5. $4k \geq 36$

6. $x + 6 < 9$

7. $4n \neq 12$

8. $15 > 3y$

9. $p - 11 \geq 2$

MIXED APPLICATIONS

Write an inequality for each problem. Then solve.

10. Hal wrote a check for \$30. After writing the check, he had less than \$450. How much did he have in the account before writing the check?

11. Six workers were paid less than \$828 for a job. The money was shared equally among them. Could each one have received \$138? Explain.

LOGICAL REASONING

Assume that the given statement is true. Write *true*, *false*, *possible*, or *cannot tell* for each conclusion. Explain.

Statement: The Hoopsters won more than 12 basketball games.

12. Conclusion: The Hoopsters played only 12 basketball games

13. Conclusion: The Hoopsters won more games than they lost.

More One-Step Inequalities

Solve and graph each inequality.

1. $a + 5 < 4$

2. $b - 9 > 5$

3. $4c - 3 < 3$

4. $\frac{4}{5}d \geq 8$

5. $e - 2 < 3$

6. $-2t < 14$

7. $-4t \geq 3$

8. $-5y < 10$

9. $s + 2 < 8$

MIXED APPLICATIONS

Write an inequality for Exercise 10. Then solve.

10. At Mac's Sporting Goods, the number of bicycles sold in May was 40 less than the number sold in April. The total number sold in both months was less than the 120 bicycles sold in March. How many were sold in April and May?

11. Barbara rides her bicycle $2\frac{1}{3}$ mi each morning to deliver newspapers. How many miles does she ride in a week?

MIXED REVIEW

Find the sum or difference.

12. $-\frac{1}{4} - -\frac{5}{8}$ _____

13. $-3 + -\frac{4}{7}$ _____

14. $-\frac{4}{9} + \frac{7}{12}$ _____

15. $8 - -4$ _____

16. $-94 - 15$ _____

17. $19 + -9$ _____