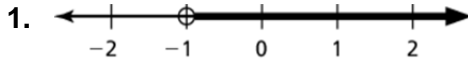


Chapter 4

Test A

Write an inequality for the graph.



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

Write the word sentence as an inequality.

3. A number n is no less than -3 .

4. A number q plus 7 is less than 45.

5. A number x divided by -1 is at least -4 .

6. The children in the class are more than 10 years old.

7. The minimum cost for parking is \$3.

Tell whether the given value is a solution of the inequality.

8. $j + 1 > 10$; $j = 9$

9. $-3 \leq \frac{k}{2}$; $k = -1$

- 10.** A freezer is set to turn on and start cooling if the temperature rises above -10° Celsius. The cooling turns off when the freezer has reached a temperature of -16° Celsius. Write two inequalities to model the situation. Give a sample value at which the cooling would turn on, and a sample value at which the cooling would be off.
- 11.** An elevator can carry 800 pounds of weight.
- a.** A student weighing 95 pounds gets on the elevator. Write and solve an inequality to represent the remaining weight that can be added.

 - b.** A football player weighing 280 pounds gets on the elevator with the student. Write and solve an inequality representing the remaining weight that can be added.

 - c.** Two more football players weighing a total of 470 pounds come to the elevator. Can they get on safely? Explain.

Chapter
4
Test A (continued)

Solve the inequality.

12. $x - 3 > 7$

13. $m + 2 \leq -4$

14. $6y > 8$

15. $p \div 5 < -3$

16. $4z - 3 \geq -1$

17. $6 > 3(t + 2)$

Answers

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

See left.

19. _____

See left.

20. _____

See left.

Solve the inequality. Graph the solution.

18. $-4 + x \leq 1$



19. $2 < -\frac{y}{5}$



20. $3(x + 4) \geq 12$



Write and solve an inequality that represents the value of x .

- 21.** The perimeter is more than 15 feet.



- 22.** The area is no more than 40 square feet.

