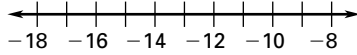


Chapter Test C

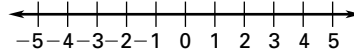
For use after Chapter 6

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

1. $-\frac{x}{5} \geq 3$



2. $-12b \leq 48$



3. You ran a ten-kilometer race in 50.5 minutes. Write an inequality for the average speed of the runners who finished after you did. (Average speed = distance/time)

Solve the inequality.

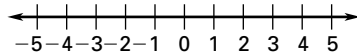
4. $2x + 5 < 3x - 7$

5. $-8x - 3 \geq -4x + 5$

6. An ice cream shop sells two scoops of ice cream for \$1.50 and charges \$0.70 for each additional scoop. You have \$3.50 to spend. Write an inequality that represents the number of scoops of ice cream you can buy without spending more money than you have.

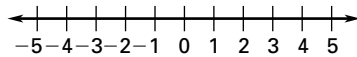
Write an inequality that represents the statement and graph the inequality.

7. x is greater than or equal to 5 or is less than 0

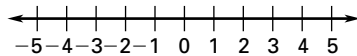


Solve the inequality and graph the solution.

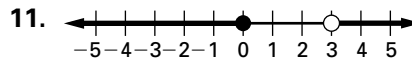
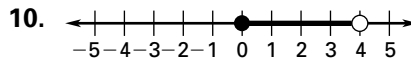
8. $-4 < 2x + 5 \leq 12$



9. $10x - 4 \leq -24$ or $5x + 3 > 18$



Write a compound inequality that describes the graph.



Solve the equation or the inequality.

12. $|3x + 5| - 4 = 22$

13. $|2x - 7| - 2 \geq 11$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____

Chapter Test C

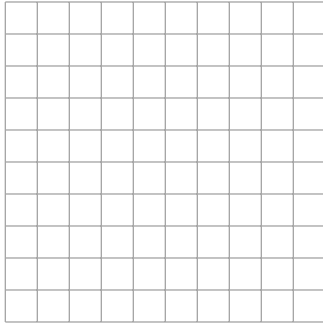
For use after Chapter 6

Is the ordered pair a solution of the inequality?

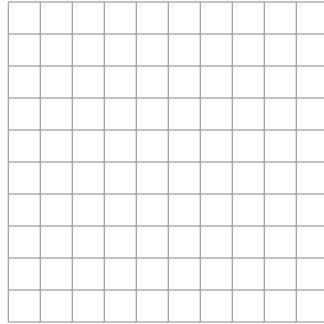
14. $\frac{2}{3}x + \frac{1}{3}y < 2$; $(-3, 5)$ 15. $0.6x - 0.5y \geq 4$; $(-1, -1)$

Sketch the graph of the inequality.

16. $2x + y \leq 4$



17. $4x + 2y > 6$

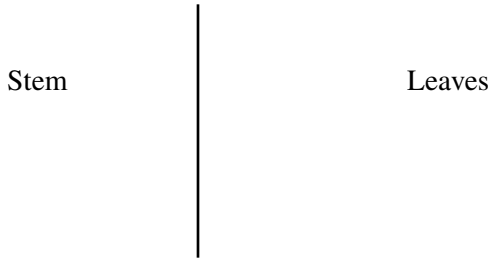


14. _____
 15. _____
 16. _____
 17. _____
 18. _____
 19. _____
 20. _____
 21. _____
 22. _____

18. An appliance store has \$1000 to spend on stocking personal CD players and personal cassette players. The CD players cost \$50 and the cassette players cost \$20. Write an inequality to model the different numbers of CD players and cassette players the store can buy.

Make a stem-and-leaf plot of the data.

19. 23, 45, 55, 41, 23, 61, 57, 42, 22



Find the mean, the median, and the mode of the collection of numbers.

20. 3.2, 1.5, 4.2, 2.5, 3.6, 4.8, 1.9

Find the first, second, and third quartiles of the data.

21. 6.4, 1.3, 3.9, 5.3, 4.2, 2.5, 3.6

Draw a box-and-whisker plot of the data.

22. 32, 20, 36, 19, 36, 27, 22, 23

