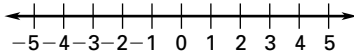


Chapter Test B

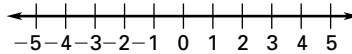
For use after Chapter 6

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

1. $p - 2 \geq -4$



2. $-y < 4$



3. You finish a two-mile walking race in 36.5 minutes. Write an inequality for the average speed of the walkers who finished after you did. (Average speed = distance/time)

Solve the inequality.

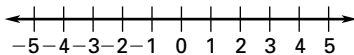
4. $4x - \frac{2}{3} \geq \frac{1}{3}$

5. $7 - 3x \leq 22$

6. The biology club budgeted \$200 for their pancake breakfast. Each meal costs \$1.50 to prepare. Write an inequality that represents the number of meals that can be prepared without going over the budget.

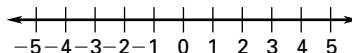
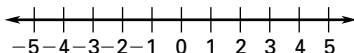
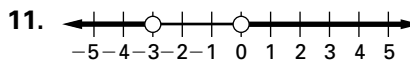
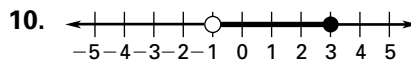
Write an inequality that represents the statement and graph the inequality.

7. x is greater than 1 or is less than -2

**Solve the inequality and graph the solution.**

8. $-3 \leq 2x + 5 < 11$

9. $4x + 5 < 3$ or $3x - 2 \geq 1$

**Write a compound inequality that describes the graph.****Solve the equation or the inequality.**

12. $|x + 3| = 4$

13. $|x - 2| = 6$

14. $|x - 5| < 3$

15. $|2x + 3| \geq 17$

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

Chapter Test B

For use after Chapter 6

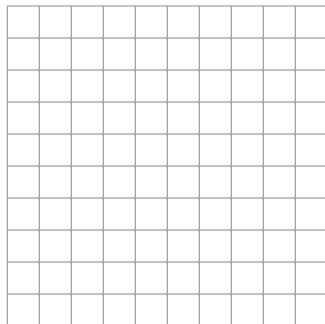
Is the ordered pair a solution of the inequality?

16. $3x + 2y \leq 4$; (4, 3)

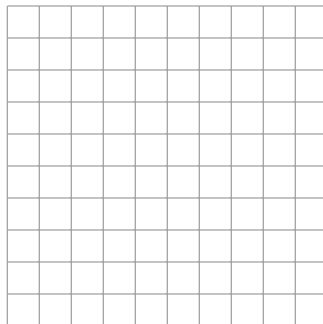
17. $5x - 3y > 4$; (-1, -5)

Sketch the graph of the inequality.

18. $x + 4 > 5$



19. $y - 3 \leq -4$



16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

20. You have \$5 to spend on fruit for a picnic. Apples cost \$0.99 per pound and bananas cost \$0.49 per pound. Write an inequality to model the amounts of apples and bananas you can buy.

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

21. 54, 21, 34, 25, 51, 26, 45, 37, 31

Stem

Leaves

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

22. 10, 7, 8, 7, 8, 8

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

23. 15, 6, 1, 13, 5, 11, 3, 8

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

24. 24, 16, 12, 28, 19, 21, 15

