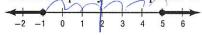
## **Chapter 5 Sample Test** (continued)

12. Which inequality corrresponds to the graph shown?



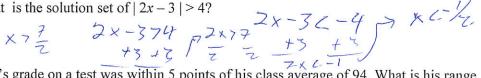
**F** 
$$|x-2| < 3$$

$$\mathbf{H} |x - 2| \ge 3$$

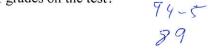
$$G|x-2| > 3$$

$$\mathbf{J} |x - 2| \le 3$$

13. What is the solution set of |2x-3| > 4?

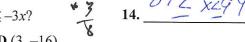


14. Pete's grade on a test was within 5 points of his class average of 94. What is his range of grades on the test?





15. Which ordered pair is part of the solution set of the inequality  $12 + y \le -3x$ ?



A (-16, 3) -9 4-9 **16.** Which inequality is graphed at the right?

$$C(4,-1)$$

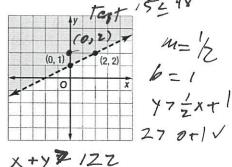
$$\mathbf{D}(3,-16)$$

**F** 
$$y < 2x + 1$$
 **H**  $y < \frac{1}{2}x + 1$ 

**G** 
$$v > 2x + 1$$

**G** 
$$y > 2x + 1$$
 **J**  $y > \frac{1}{2}x + 1$ 

17. Taka bought a new coat and new shoes. He spent \$122. Which inequality represents this situation if x represents the cost of a coat and y represents the cost of the shoes he buys?





**A** 
$$122 \le y + x$$

**B** 
$$y \le 122 + x$$

**C** 
$$y - x \ge 122$$

**D** 
$$y \le 122 - x$$

**18.** Determine which of the ordered pairs are a part of the solution of  $y + 1 > \frac{1}{2}x + 3$ .

$$J(-3, 1)$$

- 19. Which inequality has a solution set of  $\{x \mid x > -3 \text{ or } x < -4\}$ ?

  A  $|2x + 7| < 1 \leftarrow CGuY$ .

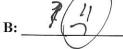
  B |2x + 7| > 1D |2x + 7| > 1

$$C |2x + 7| > D$$

- 20. Laurie and Maya sold at most \$50 worth of get-well and friendship cards. The friendship cards, x, were sold for \$2 each and the get-well cards, y, were sold for \$1.50 each. Which point represents a reasonable number of cards sold?



Bonus Solvel6(n) 3) -4 |n| +5 = 11.



## Chapter 5 Sample Test

SCORE

For Questions 1-6, solve each inequality.

1. 
$$-51 \le x + 38$$
 $-37$ 
 $-38$ 

2. 
$$m - \frac{3}{8} > \frac{1}{2}$$

$$\frac{7}{3} \cdot \frac{t}{-2} > 4$$

4. 
$$-3.5z < 42$$

**5.** 
$$4w - 6 > 6w - 20$$

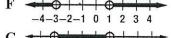
6. 
$$8r = (5r + 4) \ge -31$$

7. The sum of two consecutive integers is at most 3. What is the greatest possible value for the greater integer?



Write the letter for the correct answer in the blank at the right of each question.

**8.** Which of the following is the graph of the solution set of y < -3 or y > 1?



-4-3-2-1 0 1 2 3 4

9. Which compound inequality has the solution set shown in the graph?



$$A - 1 < n < 2$$
  
 $B - 1 < n < 2$ 

C 
$$n \ge -1$$
 or  $n < 2$   
D  $-1 < n \le 2$ 

10. Which of the following is the solution set of  $-4 < 3t + 5 \le 20$ ?

**F** 
$$\{t \mid -3 < t \le 5\}$$

**H** 
$$\{t \mid t < -3\}$$

**G** 
$$\{t \mid t < -3 \text{ and } t \le 5\}$$

$$H {t | t < -3} 
J {t | t < -3 or t ≥ 5} - 3 < t ≤  $\overline{C}$$$

11. Which of the following is the graph of the solution set of  $t-4 \ge 4t+8$  or 3t>14-4t?

Chapter 5

Glencoe Algebra 1