Name: _____ Class: _____ Date: _____ ID: A

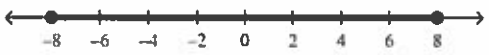
Algebra 1 Chapter 4B Practice Test

Multiple Choice
Identify the choice that best completes the statement or answers the question.

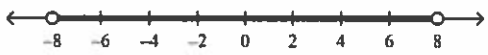
Write a compound inequality that represents each situation. Graph your solution.

____ 1. all real numbers that are greater than –8 and less than 8

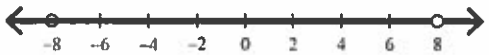
a. $-8 \le x \le 8$



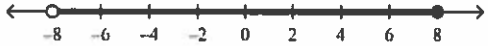
c. $-8 < x < 8$



b. $-8 < x < 8$



d. $-8 < x \le 8$



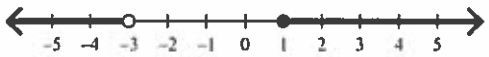
Write an inequality for the situation.

____ 2. all real numbers m that are less than –1 or greater than 19

a. $m < -1$ or $m > 19$
c. $-1 < m < 19$
b. $m < 19$ or $m > -1$
d. $m < -1$ or $m \ ^3 \ 19$

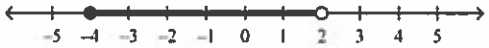
Write a compound inequality that the graph could represent.

____ 3.



a. $b < -1$ or $b \ge 3$
c. $-1 \le b < 3$
b. $b > -3$ or $b \le 1$
d. $b < -3$ or $b \ge 1$

____ 4.



a. $-2 \le x < 4$
c. $x \ge -4$ or $x < 2$
b. $-4 < x \le 2$
d. $-4 \le x < 2$

Short Answer

5. Tina can type at least 45 words per minute. Write an inequality to model this situation.

Solve the inequality.

6. $7(a-2) > 42$

7. $-3x - 7 < 20$

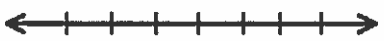
8. $j + 10 - 2(j - 24) > 0$

9. Solve for the variable. $10 + 17q \geq 12(q + 10)$

10. Solve for the variable and graph your solution. $3(2x - 3) < 5(x + 2) + 3x + 1$

Solve the compound inequality. Graph your solution.

11. $2x - 4 < -12$ or $3x + 8 > 20$



12. $4x - 7 < -19$ or $10x + 10 > 0$

Solve the inequality. then graph your solution.

13. $-2 \leq 2x - 4 < 2$

14. $-12 < 3x - 9 < 15$

15. $|d + 5| \geq 8$

16. $|2x + 8| < 16$

17. $|2x + 10| = 18$

Solve the equation. If there is no solution, write *no solution*.

18. $|x| - 5 = 10$

19. $2|n| - 10 = 24$