

Chapter 5 Test Review

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

For Questions 1–7, solve each inequality.

1. $x - 7 > 3$

- A $\{x \mid x > 10\}$ B $\{x \mid x > -4\}$ C $\{x \mid x < 10\}$ D $\{x \mid x < -4\}$

1. _____

2. $3 \geq t + 1$

- A $\{t \mid t \leq 4\}$ B $\{t \mid t \geq 2\}$ C $\{t \mid t \leq 2\}$ D $\{t \mid t \geq 4\}$

2. _____

3. $1 \geq \frac{-y}{4}$

- A $\{y \mid y \geq -\frac{1}{4}\}$ B $\{y \mid y \geq -4\}$ C $\{y \mid y \leq 4\}$ D $\{y \mid y \leq 3\}$

3. _____

4. $5m < -25$

- A $\{m \mid m < 125\}$ B $\{m \mid m < -125\}$ C $\{m \mid m > -5\}$ D $\{m \mid m < -5\}$

4. _____

5. $-36 \leq 3t$

- A $\{t \mid t \geq -12\}$ B $\{t \mid t \leq 12\}$ C $\{t \mid t \geq 12\}$ D $\{t \mid t \leq -12\}$

5. _____

6. $6y - 8 > 4y + 26$

- A $\{y \mid y > -9\}$ B $\{y \mid y > -17\}$ C $\{y \mid y > 9\}$ D $\{y \mid y > 17\}$

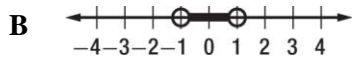
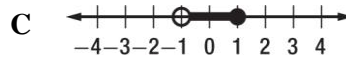
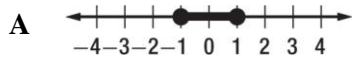
6. _____

7. $3(2d - 1) \geq 4(2d - 3) - 3$

- A $\{d \mid d \geq -9\}$ B $\{d \mid d \leq -6\}$ C $\{d \mid d \geq 3\}$ D $\{d \mid d \leq 6\}$

7. _____

8. Which of the following is the graph of the solution set of $m > -1$ and $m \leq 1$?



8. _____

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



- A $x < -1$ or $x > 3$ C $x > -1$ or $x \geq 3$
 B $x > -1$ or $x < 3$ D $x \leq -1$ or $x \geq 3$

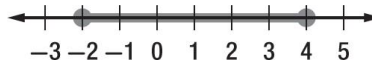
Chapter 5 Test Review *(continued)*

10. Which of the following is the solution set of $2a + 1 > 9$ or $a < -1$?

- A $\{a \mid a < -1 \text{ or } a > 4\}$ C $\{a \mid -1 \leq a \leq 4\}$
 B $\{a \mid a \leq -1 \text{ or } a \geq 4\}$ D $\{a \mid a < -1 \text{ or } a > 5\}$

10. _____

11. Which inequality corresponds to the graph shown?



- A $|x - 3| \leq 1$ C $|x - 3| \geq 1$
 B $|x - 1| \leq 3$ D $|x - 1| \geq 3$

11. _____

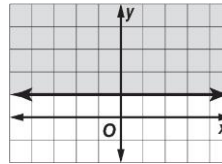
12. Solve $|x - 3| < 2$.

- A $\{x \mid 1 < x < 5\}$ C $\{x \mid -1 < x < 1\}$
 B $\{x \mid -5 < x < -1\}$ D $\{x \mid -1 < x < 5\}$

12. _____

13. Which inequality has the solution set shown in the graph?

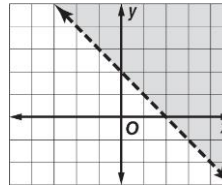
- A $y < 1$ C $y > 1$
 B $y \leq 1$ D $y \geq 1$



13. _____

14. Which inequality has the solution set shown in the graph?

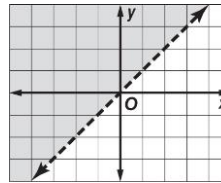
- A $y < -x + 2$ C $y < -x + 1$
 B $y > -x + 2$ D $y > -x + 1$



14. _____

15. Determine which of the ordered pairs are a part of the solution set for the inequality graphed at the right.

- A (2, 1) C (-3, -3)
 B (1, 3) D (-2, -3)

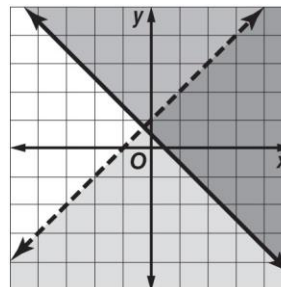


15. _____

For Questions 16 and 17, use the graph.

16. What is a solution to the system of inequalities?

- A (0, 2) C (1, 1)
 B (0, 0) D (2, 4)



16. _____

17. _____

17. What system of inequalities is represented?

- A $y < x + 1$ B $y > x + 1$ C $y > x + 1$ D $y < x + 1$
 $y \leq -x + 0.5$ $y \leq -x + 0.5$ $y \geq -x + 0.5$ $y \geq -x + 0.5$