

# Chapter 5 Test, Form 1

SCORE \_\_\_\_\_

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.  $3 \geq r + 1$

F  $\{r \mid r \leq 4\}$

G  $\{r \mid r \geq 2\}$

H  $\{r \mid r \leq 2\}$

J  $\{r \mid r \geq 4\}$

2. \_\_\_\_\_

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

A

B  $\{y \mid y \geq -4\}$

C  $\{y \mid y \leq 4\}$

D  $\{y \mid y \leq 3\}$

3. \_\_\_\_\_

4.  $5m < -25$

F  $\{m \mid m < 125\}$

G  $\{m \mid m < -125\}$

H  $\{m \mid m > -5\}$

J  $\{m \mid m < -5\}$

4. \_\_\_\_\_

5.  $-36 \leq 3r$

A  $\{r \mid r \geq -12\}$

B  $\{r \mid r \leq 12\}$

C  $\{r \mid r \geq 12\}$

D  $\{r \mid r \leq -12\}$

5. \_\_\_\_\_

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

F  $\{y \mid y > -9\}$

G  $\{y \mid y > -17\}$

H  $\{y \mid y > 9\}$

J  $\{y \mid y > 17\}$

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. Six is at least four more than a number. Which inequality represents this sentence?

F  $6 \leq n + 4$

G  $6 \geq n + 4$

H  $4 \leq n + 6$

J  $4 \geq n + 6$

8. \_\_\_\_\_

9. More than eighteen students in an algebra class pass the first test. This is about three-fifths of the class. How many students are in the class?

A less than 30

B less than 25

C more than 30

D 25

9. \_\_\_\_\_

10. Phillip has between two hundred and three hundred baseball cards. Which inequality represents this situation?

F  $200 < p < 300$

H  $p < 300$  or  $p < 200$

G  $200 > p > 300$

J  $p < 200$  and  $p > 300$

10. \_\_\_\_\_

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



11. \_\_\_\_\_



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

F  $x < -1$  or  $x > 3$



H  $x > -1$  or  $x \geq 3$

G  $x > -1$  or  $x < 3$

J  $x \leq -1$  or  $x \geq 3$

12. \_\_\_\_\_

# Algebra Chapter 5 Test Answers

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Burstein**

**Algebra Chapter 5 Test Answers:**

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