

Lesson-17



Question 1

Express the inequalities in interval notation  $x \ge 2$ 

A.  $(-\infty, 2)$ 

- B.  $(2,\infty)$ C.  $(-\infty,2)$ D.  $[2,\infty)$

Express the inequalities in interval notation  $-1 \le x < 4$ 

- A. [-1,4)
- **B.** (-1,4]
- **C**. [-1,4]
- D. [-1,4]

## Which interval notation represents the set of all numbers from 2 through 7 inclusive?

- A. (2,7)
- **B.** (2,7]
- C. [2,7]
- **D.** [2,7)



## Solve the following compound inequality and choose the correct answer: -19 < 3x - 4 < 5

- A. -26 < x < -2
- B. -5 < x < 3
- C. −18 < *x* < 6
- D. −9 < *x* < 3

## Which compound inequality represents the following graph

- A.  $-2 \le x < 4$
- $\mathsf{B}. \qquad -4 \le x < 2$
- C.  $-4 < x \le 2$
- D.  $-4 \le x \le 2$



- A.  $-1 \le x \le 2$
- B. -1 < x < 2
- C. -1 < x > 2
- D.  $-1 \le x < 2$



- A. 25≥5(2x+3)
- B. 5(2x+3) > 25
- C. 5(2x+3) < 25
- $\mathsf{D.} \qquad 25 \le 5(2x+3)$

Solve this quadratic inequality  $9 - x^2 \le 0$ 

- A.  $(-\infty, -3] \cup [3, \infty)$
- B. (−3, 3)
- C. No real number solutions

Question 19

Solve this quadratic inequality

 $3x^2 + 6x - 45 \le 0$ 

- A.  $-5 \le x \le 3$
- B. (-5,3)
- C.  $-3 \le x \le 5$

D. [-3,5]