

Place the correct letter in the blank.

A 1) If  $a$  is to the left of  $b$  on the number line, I know that...

- A.  $a$  is less than  $b$       B.  $a$  is greater than  $b$       C. Not enough information is given for a conclusion

D 2) The distance between  $(17,11)$  and  $(-7,1)$  is...

$$\sqrt{24^2 + 10^2} = \sqrt{10^2(4+1)}$$

- A. 25      B. 26      C. 28      D. None of these

E 3) The point  $(7,0)$  is in which Quadrant?

- A. 1<sup>st</sup>      B. 2<sup>nd</sup>      C. 3<sup>rd</sup>      D. 4<sup>th</sup>      E. None of these

D 4) The interval notation to represent  $-3 \leq x < 7$  is...

- A.  $(-3,7)$       B.  $[-3,7]$       C.  $[-3,7)$       D.  $[-3,7)$

A 5) If I solve  $-32 < 4y - 8 \leq 28$  and express the solution in interval notation, I'll get...

$$-24 < 4y \leq 36 \quad [6, 9]$$

- A.  $(-6,9]$       B.  $(6,8]$       C.  $(-10,9]$       D.  $(-5,10]$

A 6) If I solve  $5y - 8 < -6.4 + 4y$  and express the solution in interval notation, I'll get...

$$y < 8 - 6.4 = 1.6$$

- A.  $(-\infty, 1.6)$       B.  $(-\infty, 1.6]$       C.  $[-\infty, 1.6]$       D.  $[-\infty, 1.6)$

D 7) How many values make the following inequality true?  $|2x - 8| > -3$

- A. Two      B. One      C. None      D. An infinite number