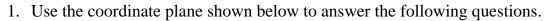
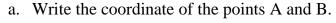
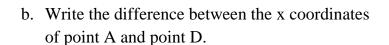
tutorified

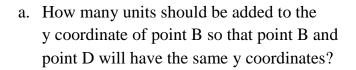
5.G.A.1 Graph Integers on a Coordinate Plane - II

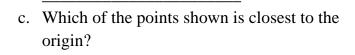
5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

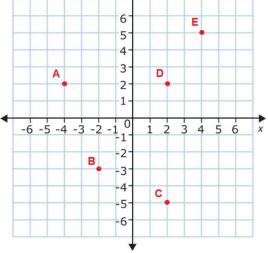












- 2. Which of the following points lie on the x-axis?
 - a. (3, -4)
- b. (3, 5)
- c. (5, 0)
- d. None of these
- 3. Which of the following points lie on the y-axis?
 - a. (0, -4)
- b. (2, 1)
- c. (1, 0)
- d. None of these
- 4. Which of the following points lie on both the x-axis and the y-axis?
 - a. (-2, -1)
- b. (1, 1)
- c.(0,0)
- d.(0,3)
- 5. Explain why order in the pair is important when graphing an ordered pair on a coordinate plane.

Solution:

- 6. Use the coordinate plane shown in question 1 to plot the following points. Then identify the quadrant in which each of these points lie.
 - a. (2, 2) quadrant: ____
 - b. (2, 8) quadrant: ____
 - c. (3, 3) quadrant: ____
 - d. (-3, -4) quadrant: ____

tutorified

5.G.A.1 Graph Integers on a Coordinate Plane - II

Answer Key

5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

- 1. Use the coordinate plane shown below to answer the following questions.
 - a. Write the coordinate of the points A and B.

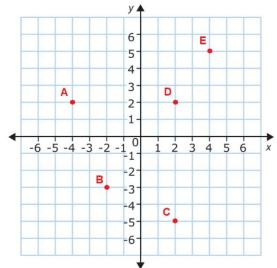
A(-4, 2) and B(-2, -3)

b. Write the difference between the x coordinates of point A and point D.

6 units

c. How many units should be added to the y coordinate of point B so that point B and point D will have the same y coordinates?5 units

d. Which of the points shown is closest to the origin?point D



- e. How many points lie in the second quadrant? one
- 2. Which of the following points lie on the x-axis? c
 - a. (3, -4)
- b. (3, 5)
- c. (5, 0)
- d. None of these
- 3. Which of the following points lie on the y-axis? a
 - a. (0, -4)
- b. (2, 1)
- c. (1, 0)
- d. None of these
- 4. Which of the following points lie on both the x-axis and the y-axis? c
 - a. (-2, -1)
- b. (1, 1)
- c.(0,0)
- d.(0,3)
- 5. Explain why order in the pair is important when graphing an ordered pair on a coordinate plane.

Solution: Order is important in graphing points because the first number in the ordered pair always indicates the distance from the origin vertically (or x-axis) and the second number is the distance from the origin horizontally (or y-axis).

- 6. Use the coordinate plane shown in question 1 to plot the following points. Then identify the quadrant in which each of these points lie.
 - a. (2, 2) quadrant: 1
 - b. (2, 8) quadrant: 1
 - c. (3, 3) quadrant: 1
 - d. (-3, -4) quadrant: <u>3</u>