Coordinate Axes

A. Choose the Correct Answer:

1. The horizontal axis in a coordinate plane is called:

a) Y–axis

b) X–axis

c) Z–axis

d) Origin

2. The point where the X-axis and Y-axis meet is called:

a) Center

b) Origin

c) Axis

d) Coordinate

3. The coordinates of the origin are:

a) (1, 1)

b) (0, 0)

c) (1, 0)

d) (0, 1)

4. The vertical axis in a coordinate plane is called:

a) X–axis

b) Y–axis

c) Z–axis

d) Plane

5. The distance of any point from the Y-axis is called its:

a) Abscissa

b) Ordinate

c) Origin

d) Plane

B. Write the Missing Terms to Complete the Sentences:

1. The _____ axis is horizontal on a graph

2. The point (0, 0) is known as the _____

3. The _____ shows the vertical direction in the coordinate plane

4. The x–coordinate of a point is called its _____

5. The y–coordinate of a point is called its _____

C. Figure out the answers to these questions:

1. Name the coordinates of the point lying at the intersection of X–axis and Y–axis.

2. Write the names of the axes in the Cartesian plane.

3. If a point lies on the X–axis, what will be its y–coordinate.

4. Write the coordinates of a point 4 units to the right of origin and 5 units above it.

5. In which axis does the point (0, 7) lie.

D. Mark each sentence with a True (✓) or False (✗):

1. X–axis is the horizontal line in the coordinate plane. _____

2. Y–axis is the horizontal line in the coordinate plane. _____

3. The origin has coordinates (0, 0). _____

4. The distance from the X–axis is called abscissa. _____

5. The coordinate axes divide the plane into four quadrants. _____

E. Challenge yourself with these questions:

1. What are the coordinates of the origin?

2. What is the name of the point (0, 5)?

3. What is the abscissa of the point (4, 7)?

4. What is the ordinate of the point (−3, 2)?

5. Where does the point (5, 0) lie?