# Standardized Test

Name _____ Date _____

**1.** In which quadrant in the Cartesian coordinate plane is the point (−7, 7) located?

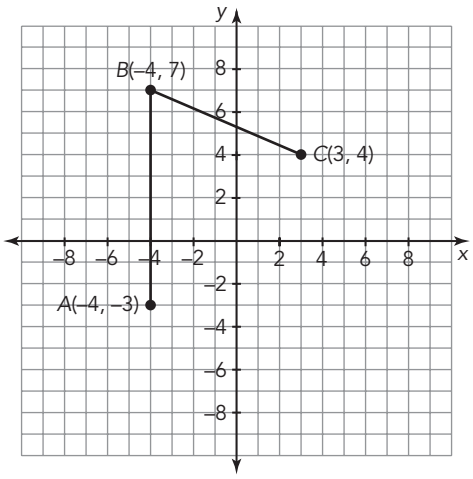
**a.** Quadrant I

**b.** Quadrant II

**c.** Quadrant III

**d.** Quadrant IV

**2.** Consider the line segments *AB* and *BC* graphed on the coordinate plane shown. What will be the coordinates of point *D* if *ABCD* forms a parallelogram?



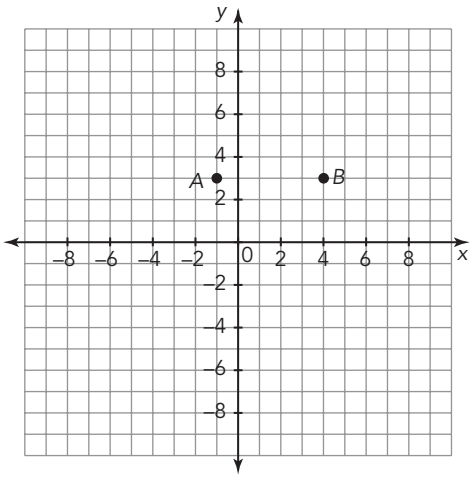

**a.** (3, −3)

**b.** (3, 0)

**c.** (3, −4)

**d.** (3, −6)

**3.** Consider the points *A* and *B* graphed on the coordinate plane shown. What will be the coordinates of point *C* if it is located in Quadrant III and used to form square *ABCD*?




**a.** (−1, 3)

**b.** (−1, −2)

**c.** (4, −2)

**d.** (4, 3)

**4.** If the points shown in the table are graphed on the coordinate plane and the points are connected with line segments, which geometric figure will be formed?

| *x* | *y* |
|---|---|
| −8 | −3 |
| −5 | 4 |
| 5 | 4 |
| 8 | −3 |

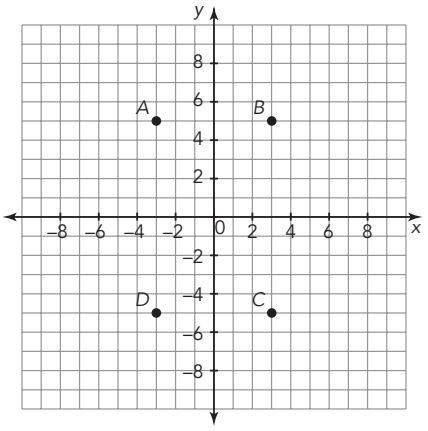
**a.** a square

**b.** a rectangle

**c.** a parallelogram

**d.** a trapezoid

**5.** Which point is located at (3, −5)?



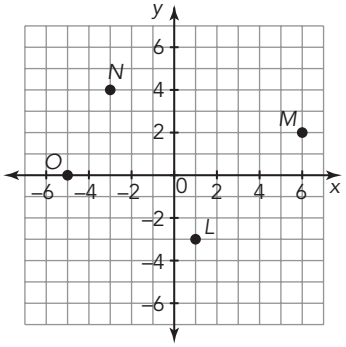

**a.** *A*

**b.** *B*

**c.** *C*

**d.** *D*

**6.** What are the coordinates of point *L*?



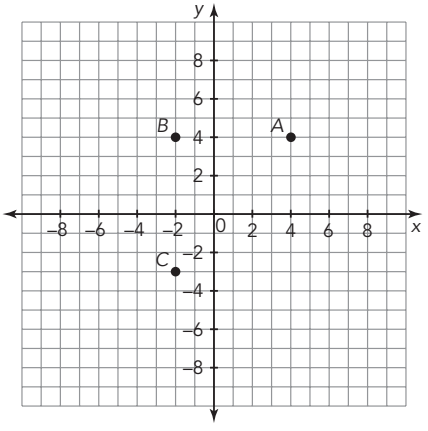

**a.** (−5, 0)

**b.** (6, 2)

**c.** (1, −3)

**d.** (−3, 4)

**7.** On the coordinate plane shown, the points *A*(4, 4), *B*(−2, 4), and *C*(−2, −3) are plotted. What will be the coordinates of point *D* if *ABCD* forms a square?




**a.** (4, −3)

**b.** (−4, −3)

**c.** (3, −4)

**d.** (4, −2)

**8.** Which statement describes every point on the *y*-axis of the Cartesian coordinate plane?

**a.** The *x*-coordinate is zero.

**b.** The *y*-coordinate is zero.

**c.** The *x*-coordinate is positive.

**d.** The *y*-coordinate is positive.

**9.** Which expression gives the distance between the points (−7, 4) and (2, 4)?

**a.** $|4| + |4|$

**b.** $|-7 + 2|$

**c.** $|4 - 4|$

**d.** $|-7| + |2|$

**10.** The temperature increased steadily from 6 AM to 2 PM. What will the graph of the data look like?

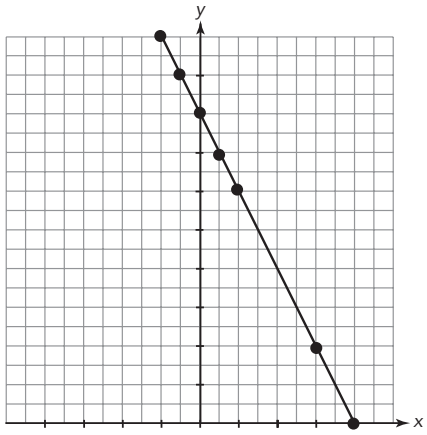
**a.** a horizontal line, moving from left to right

**b.** a line that slants down in a steep manner, moving from left to right

**c.** a line that slants up in a gradual manner, moving from left to right

**d.** a line that slants down in a gradual manner, moving from left to right

**11.** The graph shows a relationship between two quantities.




Which scenario best describes the graph?

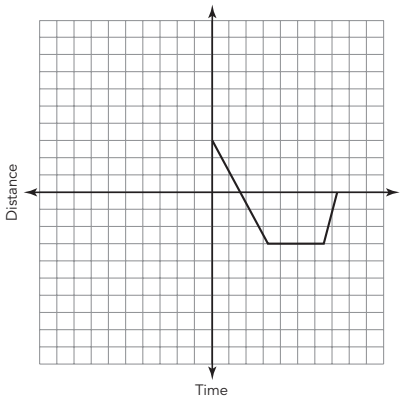
**a.** A bank account balance increases over time.

**b.** A rock is dropped from a bridge into a pond and goes under water.

**c.** A student begins working on a project before it is due, but completes it after it is due.

**d.** A hiker climbs up a mountain.

**12.** Which situation could best be represented by the graph?




**a.** Felicia swam across the surface of the pool.

**b.** George dove underwater and came right back up.

**c.** Laura jumped off the diving board and swam along the bottom before surfacing.

**d.** Carl climbed up the diving board, changed his mind, and climbed back down.

**13.** A submersible can dive to a depth of 2000 feet below sea level at a rate of 245 feet per minute. If negative numbers are used to represent distance below sea level, how deep would the submersible be in 45 seconds?

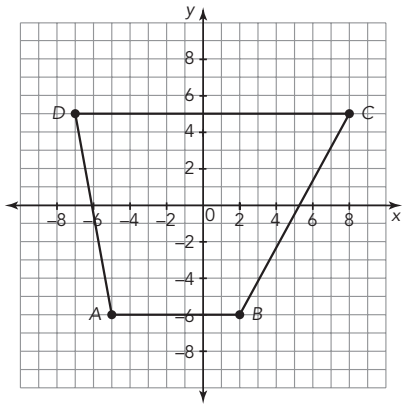
**a.** −110.25 feet

**b.** −122.5 feet

**c.** −183.75 feet

**d.** −208.25 feet

**14.** On the coordinate plane shown, points $A(-5, -6)$, $B(2, -6)$, $C(8, 5)$, and $D(-7, 5)$ are plotted and connected with line segments to form a trapezoid.




What is the height of the trapezoid?

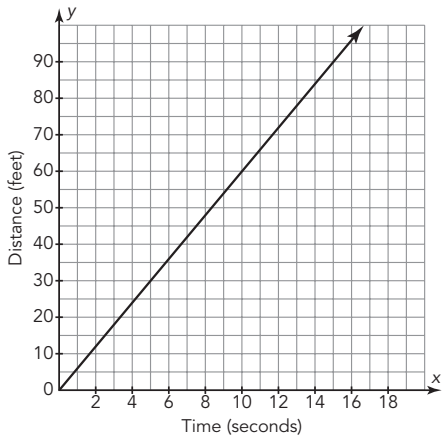
**a.** 11 units

**b.** 7 units

**c.** 15 units

**d.** 10 units

**15.** Andrew walks at a constant speed of 6 feet per second.




Using the graph, how far has Andrew walked in 10 seconds?

**a.** 16 feet

**b.** 60 feet

**c.** 1.75 feet

**d.** 35 feet

**16.** Which pairs of coordinates show a reflection across the *y*-axis? Select all that apply.

**a.** (1, 7), (7, 1)

**b.** (3, −2), (−3, −2)

**c.** (−4, 5), (−4, −5)

**d.** (−12, −6), (12, −6)

**e.** (8, 10), (4, 5)

**f.** (9, 2), (9, −2)

**17.** Which coordinate pairs lie on the x-axis? Select all that apply.

**a.** (0, 5)

**b.** (−2, 0)

**c.** (0, −13)

**d.** (0, 0)

**e.** (4, 0)

**f.** (−1, 0)

**18.** A graph shows a line that slants up in a gradual manner, moving from left to right. Which scenario best describes this graph? Select all that apply.

**a.** The further a car drives, the less gas in its tank.

**b.** A student walks to school, stays there for 6 hours, and then, walks home.

**c.** The temperature steadily increased during the day.

**d.** A worker earns $15 every hour she works.

**e.** A bank account has continuous withdrawals.

**f.** A scuba diver dives under the water.

**19.** Which pairs of points give a distance of 11? Select all that apply.

**a.** (3, −8), (3, −19)

**b.** (2, 11), (−4, 11)

**c.** (6, 7), (6, 4)

**d.** (−15, 9), (4, 9)

**e.** (7, 5), (−4, 5)

**f.** (11, 1), (11, −15)

**20.** Which points are located in Quadrant IV? Select all that apply.

**a.** (−5, −8)

**b.** (−3, 0)

**c.** (1, 4)

**d.** (2, −1)

**e.** (6, −5)

**f.** (15, −3)