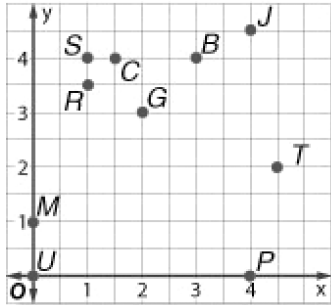


4-9 Algebra: Ordered Pairs and Functions - Practice and Problem Solving

Use the coordinate plane at the right to name the ordered pair for each point.



11. P

Start at the origin. Move right to find the x -coordinate. Since the point is on the x -axis, the y -coordinate is 0. Point P is named by $(4, 0)$.

13. B

Start at the origin. Move right to find the x -coordinate and up to find the y -coordinate. Point B is named by $(3, 4)$.

15. S

Start at the origin. Move right to find the x -coordinate and up to find the y -coordinate. Point S is named by $(1, 4)$.

17. T

Start at the origin. Move right to find the x -coordinate and up to find the y -coordinate. Point T is named by $(4.5, 2)$.

19. J

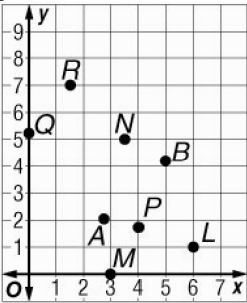
Start at the origin. Move right to find the x -coordinate and up to find the y -coordinate. Point J is named by $(4, 4.5)$.

Graph and label each point on a coordinate plane.

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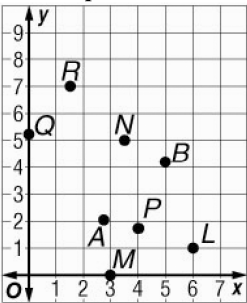
21. $L(6, 1)$

Start at the origin. The x -coordinate is 6. So, move 2 units to the right. Since the y -coordinate is 1, move 1 unit up. Draw a dot and label the point L .



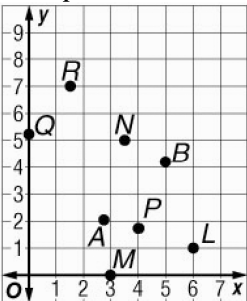
23. $N(3\frac{1}{2}, 5)$

Start at the origin. The x -coordinate is $3\frac{1}{2}$. So, move $3\frac{1}{2}$ units to the right. Since the y -coordinate is 5, move 5 units up. Draw a dot and label the point N .



25. $R(1.5, 7)$

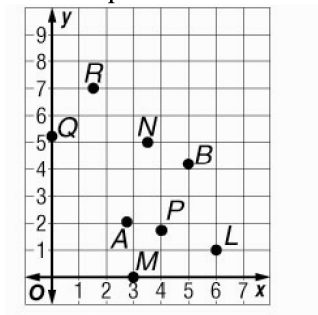
Start at the origin. The x -coordinate is 1.5. So, move 1.5 units to the right. Since the y -coordinate is 7, move 7 units up. Draw a dot and label the point R .



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27. $A(2\frac{3}{4}, 2)$

Start at the origin. The x -coordinate is $2\frac{3}{4}$. So, move $2\frac{3}{4}$ units to the right. Since the y -coordinate is 2, move 2 units up. Draw a dot and label the point A .



MEASUREMENT Use the following information.

The table gives the amount of fencing needed to create square pens with side lengths 5, $5\frac{1}{4}$, $5\frac{1}{2}$, and $5\frac{3}{4}$ feet.

Side Length (ft)	Amount of Fencing (ft)
5	20
$5\frac{1}{4}$	21
$5\frac{1}{2}$	22
$5\frac{3}{4}$	23

29. List this information as ordered pairs (side length, amount of fencing).

$$(5, 20), \left(5\frac{1}{4}, 21\right), \left(5\frac{1}{2}, 22\right), \left(5\frac{3}{4}, 23\right)$$

READING Use the following information.

It took Kevin 4 minutes to read one page in his book. The table shows the total time it took him to read 0, 1, 2, and 3 pages of the book.

Number of Pages	Total Time (min)
0	0
1	4
2	8
3	12

31. List this information as ordered pairs (number of pages, total time).

$$(0, 0), (1, 4), (2, 8), (3, 12)$$

33. **MAPS** Your house is located at (4, 1), which is 4 blocks east and 1 block north of the map's center, (0, 0). If you walk two blocks east and one block north to your friend's house, what are the coordinates of your friend's house?

$$(4 + 2, 1 + 1) \rightarrow (6, 2)$$

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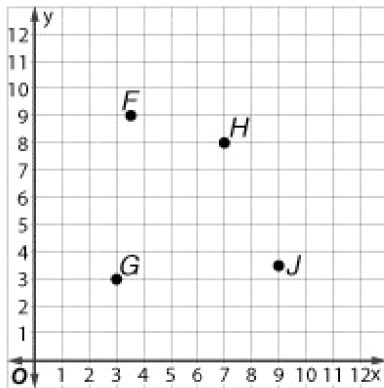
35. **OPEN ENDED** Give an example of an ordered pair that represents a point located on the x -axis.

Sample answer: (5, 0)

37. **WRITING IN MATH** Explain why the ordered pair (3, 2) is graphed at a different location than the ordered pair (2, 3).

Sample answer: The point (3, 2) is 3 units to the right of the origin on the x -axis and 2 units up the y -axis. The point (2, 3) is 2 units over on the x -axis and 3 units up the y -axis.

39. What point on the grid below corresponds to the coordinate pair $(9, 3\frac{1}{2})$?



F Point F
G Point G
H Point H
J Point J

Start at the origin. Move right 9 units and up $3\frac{1}{2}$ units. Point J corresponds to the coordinate pair $(9, 3\frac{1}{2})$.

The correct answer is J.

Write each decimal as a fraction or mixed number in simplest form.

41. 1.34

$$\begin{aligned} 1.34 &= 1\frac{34}{100} \\ &= 1\frac{17}{50} \quad \text{Divide by the GCF, 2.} \end{aligned}$$

43. 13.008

$$\begin{aligned} 13.008 &= 13\frac{8}{1000} \\ &= 13\frac{1}{125} \quad \text{Divide by the GCF, 8.} \end{aligned}$$

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- 45. BUSINESS** The manager of a shoe store wants to post a display of the number of shoes sold by each sales associate over the past 6 months. What type of statistical display would be most appropriate for this situation?

The data will compare shoes sold over a period of time, so a line graph will be best.