



Additional Practice 14-2

Graph Data Using Ordered Pairs

Another Look!

Graph the following four points and connect them to form a parallelogram.

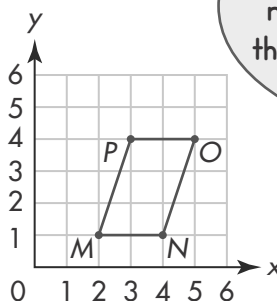
$M(2, 1)$ $N(4, 1)$ $O(5, 4)$ $P(3, 4)$

Graph $(2, 1)$ first. Start at $(0, 0)$.

Move 2 units to the right from the y -axis.

Then move one unit up. Draw a dot to represent $(2, 1)$ and label the point M .

Graph the remaining 3 points in the same way. Then draw line segments between the points to form a parallelogram.



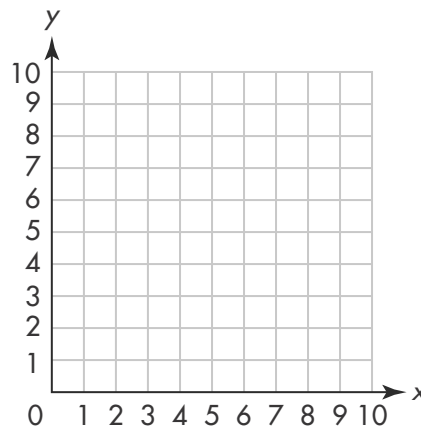
Remember that the first number in an ordered pair names the x -coordinate and the second number names the y -coordinate.



1. Explain to a friend how to graph the point $(1, 5)$.

In **2–13**, graph and label each point on the grid at the right.

- | | |
|---------------|---------------|
| 2. $A(1, 2)$ | 3. $B(0, 7)$ |
| 4. $C(3, 3)$ | 5. $D(8, 9)$ |
| 6. $E(6, 0)$ | 7. $F(5, 4)$ |
| 8. $G(2, 8)$ | 9. $H(1, 6)$ |
| 10. $I(7, 4)$ | 11. $J(0, 0)$ |
| 12. $K(1, 4)$ | 13. $L(4, 1)$ |



14. Explain the difference in how you graphed points K and L on the coordinate grid.

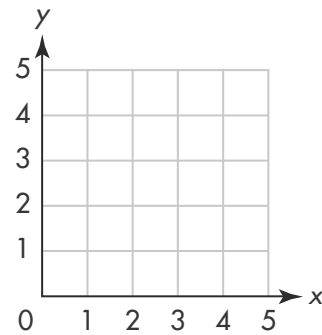


15. Graph the points below on the grid at the right.

$D(1, 1)$ $E(4, 1)$ $F(3, 3)$ $G(2, 3)$

16. Kimberly wants to draw line segments to connect the points to form a shape. What would be the most appropriate tool for her to use?

17. What is the name of the shape Kimberly forms by connecting the points? Be as specific as possible.



18. **Critique Reasoning** Franco said that $5 + 2 \times 30 = 210$. Is he correct? Explain.

19. At a ski lift, 47 people are waiting to board cars. Each car can hold 6 people. How many cars will be completely filled? How many people are left to board the last car?

20. **Higher Order Thinking** One side of a rectangle is parallel to the x-axis. One vertex of the rectangle is located at $(5, 2)$ and another vertex at $(1, 4)$. What are the coordinates of the other two vertices?

21. Andi needs $5\frac{1}{2}$ yards of fabric for a project. She has a piece that is $3\frac{1}{4}$ yards at school and a piece that is $1\frac{1}{2}$ yards at home. How much more fabric does she need?



Assessment Practice

22. Connor visits the following locations: museum at $M(4, 0)$, sports center at $S(5, 2)$, and bookstore at $B(7, 8)$. Graph and label each location on the grid at the right.

