



Practice

Video

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Additional Practice 14-2

Graph Data Using Ordered Pairs

Another Look!

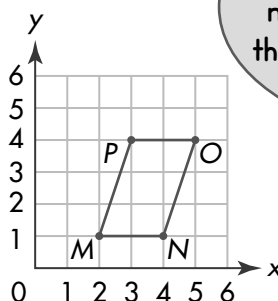
Graph the following four points and connect them to form a parallelogram.

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

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.

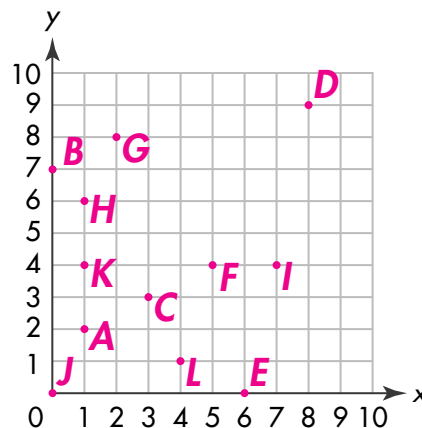


1. Explain to a friend how to graph the point $(1, 5)$.

Move 1 unit to the right of the origin and then move 5 units up.

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.

Sample answer: For K , move 1 unit to the right of the origin and 4 units up. For L , move 4 units to the right of the origin and 1 unit up.

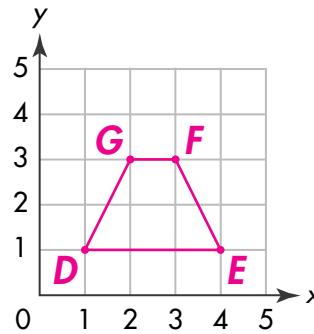


15. Graph the points below on the grid at the right.

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

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?

Sample answer: A ruler or other object with a straight edge



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

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

No; Sample answer: He did not use the order of operations correctly.
 $5 + 2 \times 30 = 5 + 60 = 65$

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?

7 cars; 5 people

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?

$(1, 2)$ and $(5, 4)$

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?

$\frac{3}{4}$ yard

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.

