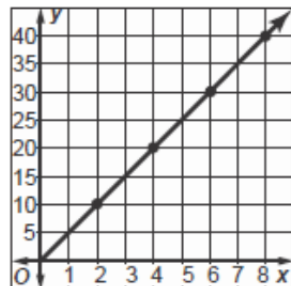# Enrich

Investigating Coordinate Planes

You can use coordinate planes to display sets of ordered pairs. You can also find new ordered pairs by looking at the line that the plotted ordered pairs make.

The table below lists the cost of tickets to a play. The data from the table are plotted on the coordinate plane.

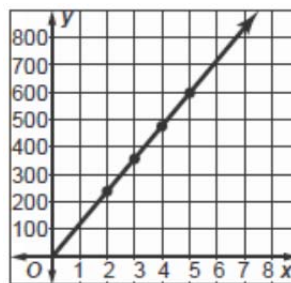| Number of Tickets	Total Cost ($)
2	10
4	20
6	30
8	40

The table shows the cost of 2, 4, 6, and 8 tickets. To find the cost of 5 tickets, you can use the grid to find the ordered pair that fits the table.

- Start at the origin and move to 5 on the *x*-axis. This is the *x*-coordinate.
- Move up until you meet the line. Then follow across to the left to the *y*-axis to find the corresponding *y*-coordinate. The value is 25.
- The ordered pair is (5, 25). This ordered pair means 5 tickets cost $25.

Exercises

Use the data plotted on the coordinate plane to answer the questions.

Time (h)	Distance (mi)
2	240
3	360
4	480
5	600

1. How many miles did the airplane travel in 1 hour?

2. How many miles did the airplane travel in 2 hours?

3. How many miles did the airplane travel in 5 hours?

4. How long did it take the airplane to travel 720 miles?

5. How long did it take the airplane to travel 360 miles?