Analyze Graphs of Relationships Between Two Variables

Turn each row of a table into an ordered pair and plot it as a point.

Name _____ **Date** _____

Tonight's spark

A show ticket costs $45. The table says 1 ticket, $45; 2 tickets, $90; 3 tickets, $135. You plot each row as a point. In each point, which number goes first?

Guess first: does the number of tickets go first, or the total cost?

Tickets (x)	Total cost (y)
1	$45
2	$90
3	$135



Our class model: row to point

Try it

Work it out on paper. Write one answer on each line.

1 **Which ordered pair matches x = 3 and y = 6?**

A. (6, 3) **B.** (3, 6) **C.** (3 + 6) **D.** 36

My answer _____

2 **In the ordered pair (2, 5), which number is the independent value?**

A. 2 **B.** 5 **C.** 7 **D.** 10

My answer _____

3 **How do you plot the point (4, 1) from the origin?**

A. Up 4, right 1 **B.** Right 1, up 4 **C.** Right 4, up 1 **D.** Left 4, up 1

My answer _____

4 **A table shows x = 1, 2, 3 and y = 3, 6, 9. Which ordered pair comes from x = 2?**

A. (2, 3) **B.** (6, 2) **C.** (2, 9) **D.** (2, 6)

My answer _____

5 **Which point is on the vertical axis (the y-axis)?**

A. (0, 4) **B.** (4, 0) **C.** (4, 4) **D.** (1, 1)

My answer _____

Talk about it

Which quantity do you choose first, the tickets or the cost?

Home mission

On the back of an envelope, write a ticket table: 1 ticket $45, 2 tickets $90, 3 tickets $135. Ask your student for the three points, tickets first. Then ask what to write on each axis.

If we get stuck, ask

- Which quantity goes first in the pair?
- What does one row of the table become on the graph?
- Are both axes labeled?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/9-2/homework.html

How did it feel? (optional)

Tricky Getting there Got it