

Lengths of Horizontal and Vertical Line Segments

Jocelyn is going to plant carrots in rows. She is using a coordinate grid to help her arrange the rows.

How long is each row?

Compare the ordered pairs at each end of Row 1:

(2,2)

(8,2)

The y -values are the same, so you know the row is horizontal.

The x -values are different. You can subtract the x -values to find the length of the row.

$$8 - 2 = 6$$

The length of Row 1 is 6 units.

How far away is the first row from the third row?

Compare the first ordered pairs from Rows 1 and 3:

(2,2)

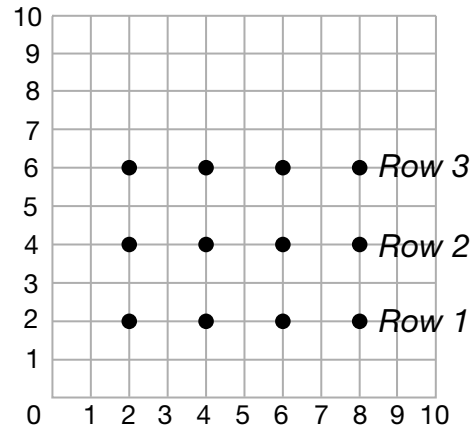
(2,6)

The x -values are the same, so you know the distance is vertical.

To find the distance between the first and third rows, subtract the y -values.

$$6 - 2 = 4$$

The distance between the first row and the third row is 4 units.



Find the distance between the ordered pairs.

1. (2, 2), (8, 2) _____ units

2. (3, 4), (3, 9) _____ units

3. (8, 4), (1, 4) _____ units

4. (1, 9), (9, 9) _____ units

5. (6, 1), (6, 5) _____ units

6. (1, 9), (1, 1) _____ units

7. **Number Sense** If the ordered pairs (1, 4) and (9, 4) are connected to make a line, is the line vertical or horizontal? _____