# Varied Fluency Step 1: The First Quadrant

### **National Curriculum Objectives:**

Mathematics Year 6: (6P2) <u>Draw and translate simple shapes on the coordinate plane, and</u> reflect them in the axes

Mathematics Year 6: (6P3) <u>Describe positions on the full coordinate grid (all four quadrants)</u>

#### **Differentiation:**

Developing Questions to support reading, writing and plotting coordinates on a quadrant. Includes 5 x 5 grids with 3 or 4 points plotted to create triangles and squares. Expected Questions to support reading, writing and plotting coordinates on a quadrant. Includes 8 x 8 grids with 5 or 6 points plotted to create pentagons and hexagons. Includes irregular pentagons.

Greater Depth Questions to support reading, writing and plotting coordinates on a quadrant. Includes 8 x 8 grids with 6 or more points plotted to create heptagons and octagons. Includes irregular shapes.

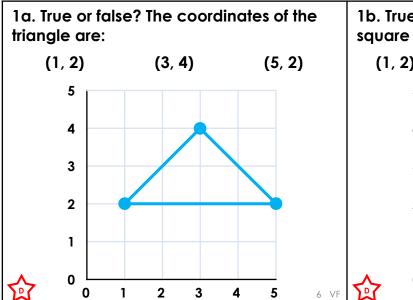
More Year 5 and Year 6 Position and Direction resources.

Did you like this resource? Don't forget to review it on our website.

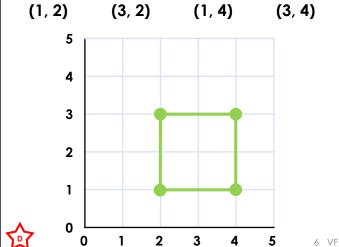


# **The First Quadrant**

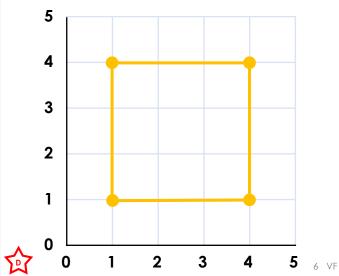
# **The First Quadrant**



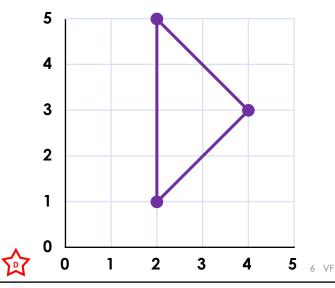
1b. True or false? The coordinates of the square are:



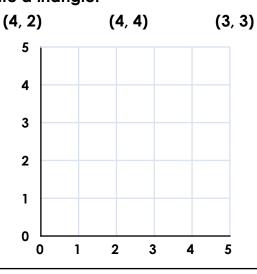
2a. Write the coordinates of the square.



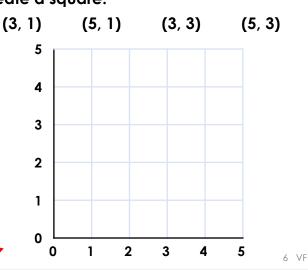
2b. Write the coordinates of the triangle.



3a. Plot the coordinates and join them to create a triangle.



3b. Plot the coordinates and join them to create a square.



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# The First Quadrant

### The First Quadrant

4b. True or false? The coordinates of the

4a. True or false? The coordinates of the pentagon are:

(7, 4)

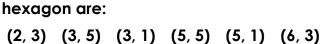
(5, 2)

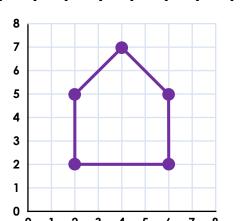
(5, 6)

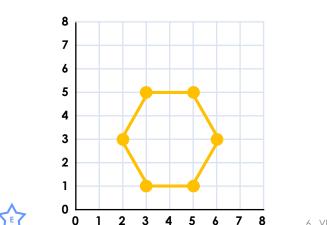
(2, 2)

(2, 6)

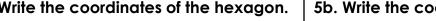
6 VF



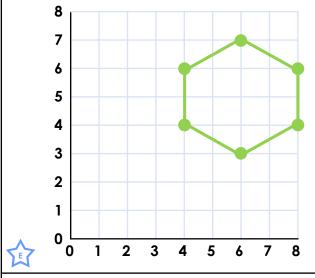


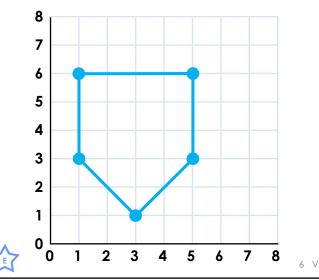


5a. Write the coordinates of the hexagon.









6a. Plot the coordinates and join them to create a pentagon.

(8, 6)

(4, 6)

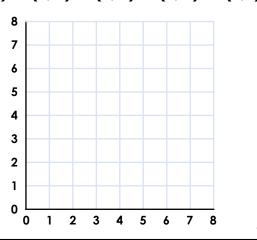
(4, 3)

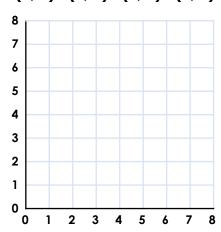
(6, 1)

(8,3)

6b. Plot the coordinates and join them to create a hexagon.

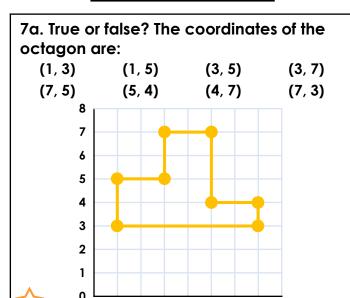
(6, 8) (4, 7) (4, 5) (6, 4) (8, 5) (8, 7)



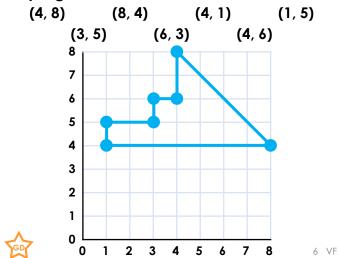


## **The First Quadrant**

### The First Quadrant



7b. True or false? The coordinates of the heptagon are:



8a. Write the coordinates of the heptagon.

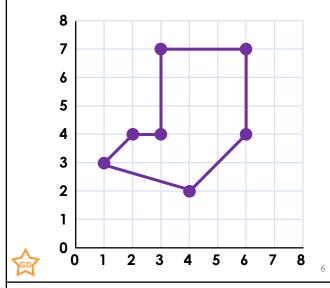
7 8

6 VF

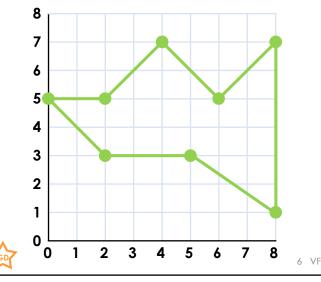
6

2

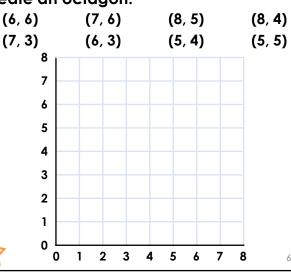
3 4 5



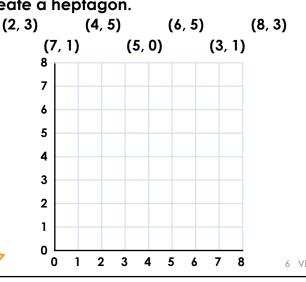
8b. Write the coordinates of the octagon.



9a. Plot the coordinates and join them to create an octagon.



9b. Plot the coordinates and join them to create a heptagon.



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## **Varied Fluency** The First Quadrant

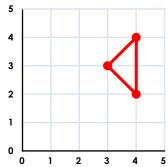
### **Varied Fluency** The First Quadrant

#### **Developing**

1a. True

2a. (1, 1), (1, 4), (4, 4), (4, 1)

3a. 5

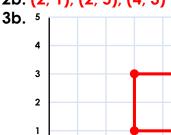


### **Developing**

1b. False, the coordinates of the square

are: (2, 1), (2, 3), (4, 3), (4, 1)

2b. (2, 1), (2, 5), (4, 3)



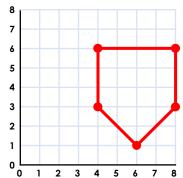
### Expected

4a. False, the coordinates of the pentagon

are: (2, 2), (2, 5), (4, 7), (6, 5), (6, 2)

5a. (4, 4), (4, 6), (6, 7), (8, 6), (8, 4), (6, 3)

6a. 8

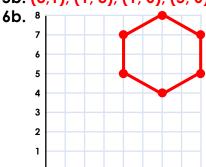


### Expected

0

4b. True

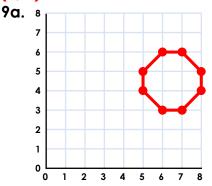
5b. (3,1), (1, 3), (1, 6), (5, 6), (5, 3)



### **Greater Depth**

7a. False, the coordinate (7, 5) should be (5, 7) and the coordinate (4, 7) should be (7, 4)

8a. (1, 3), (2, 4), (3, 4), (3, 7), (6, 7), (6, 4), (4, 2)



### **Greater Depth**

7b. False, the coordinate (4, 1) should be (1, 4) and the coordinate (6, 3) should be (3, 6)

8b. (0, 5), (2, 5), (4, 7), (6, 5), (8, 7), (8, 1), (5, 3), (2, 3)

9b. 8

