

Varied Fluency

Step 2: Draw on a Grid

National Curriculum Objectives:

Mathematics Year 4 : (4P3b) [Plot specified points and draw sides to complete a given polygon](#)

Differentiation:

Developing Questions to support plotting coordinates. Questions support identifying horizontal and vertical lines.

Expected Questions to support plotting coordinates to create a 2D shape (right triangles and squares).

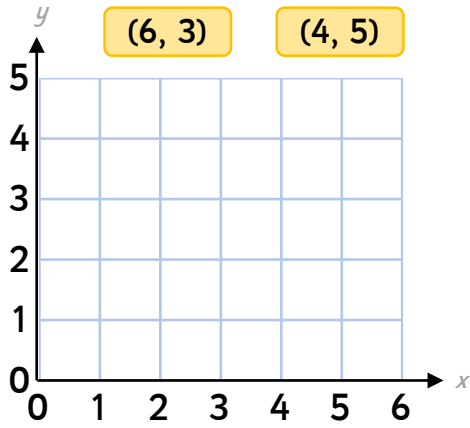
Greater Depth Questions to support plotting coordinates to create 2D shapes (parallelograms and rectangles).

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

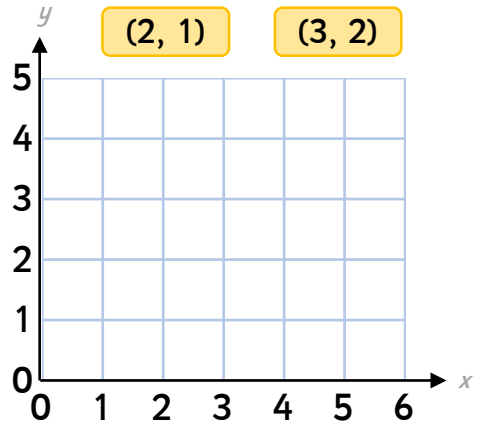
Varied Fluency – Draw on a Grid

1a. Plot the points for the coordinates on the grid.



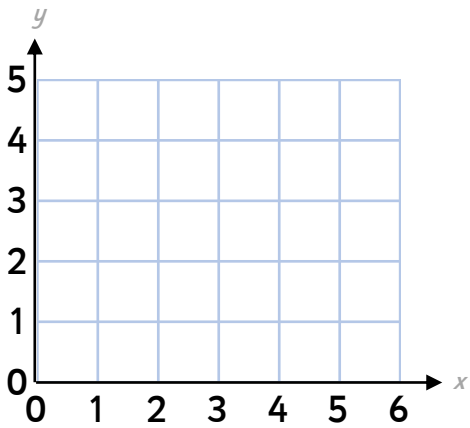
VF

1b. Plot the points for the coordinates on the grid.



VF

2a. Draw a horizontal line on the grid.

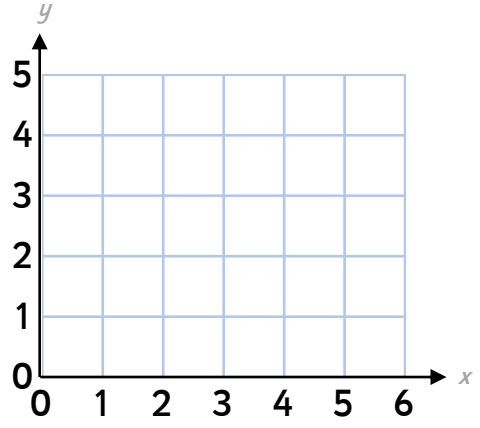


Write the coordinates.



VF

2b. Draw a vertical line on the grid.

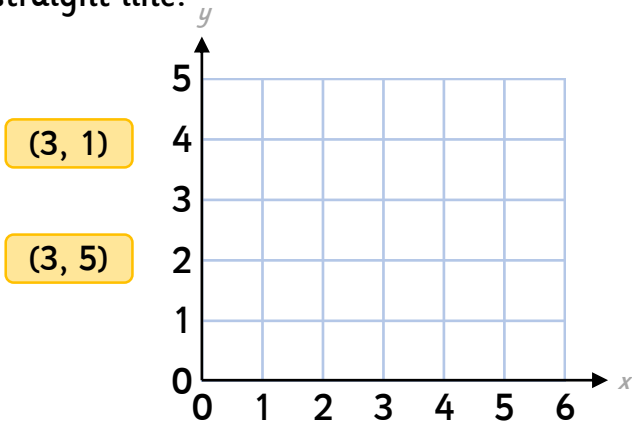


Write the coordinates.



VF

3a. These are the coordinates for a straight line.

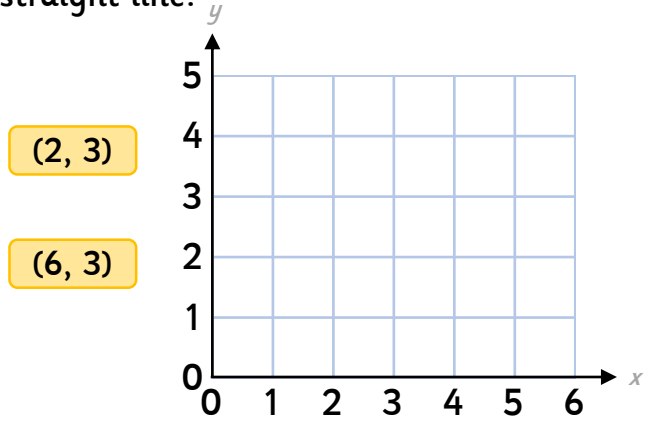


The line is vertical. True or False?



VF

3b. These are the coordinates for a straight line.



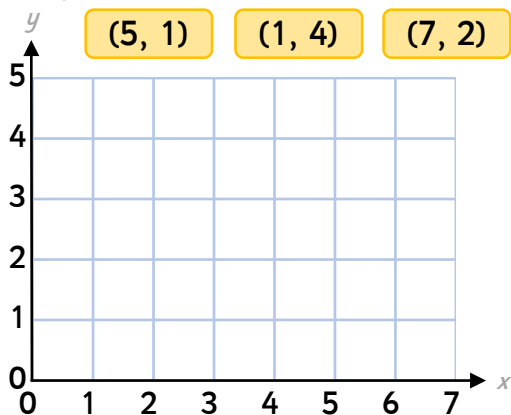
The line is horizontal. True or False?



VF

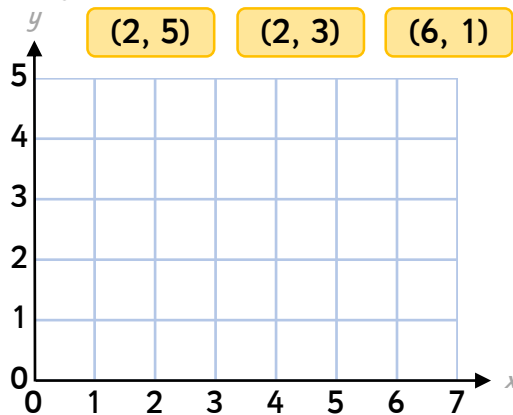
Varied Fluency – Draw on a Grid

4a. Plot the points for the coordinates on the grid.



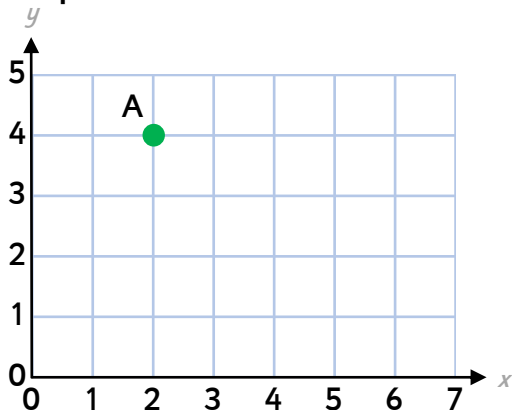
VF

4b. Plot the points for the coordinates on the grid.



VF

5a. Draw a right angled triangle. Start at point A.

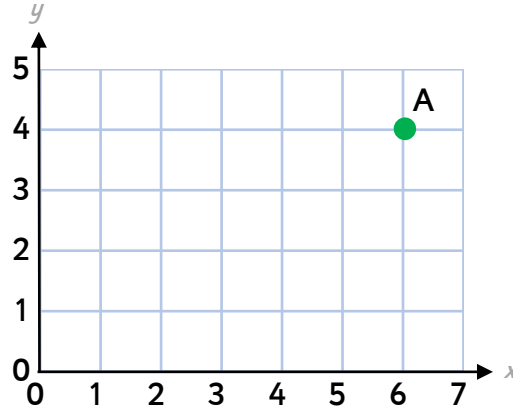


Write the coordinates.



VF

5b. Draw a right angled triangle. Start at point A.

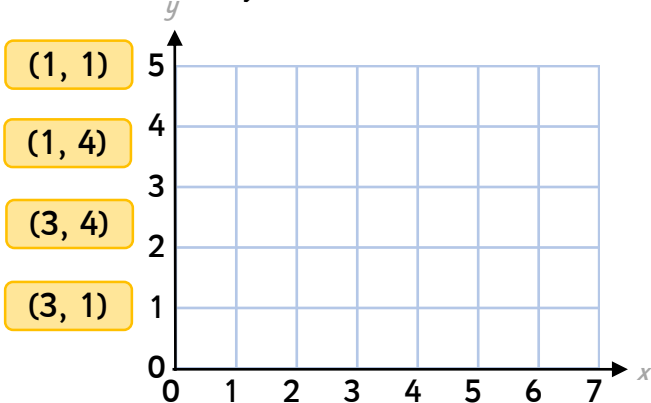


Write the coordinates.



VF

6a. These are the coordinates for the vertices of a square.

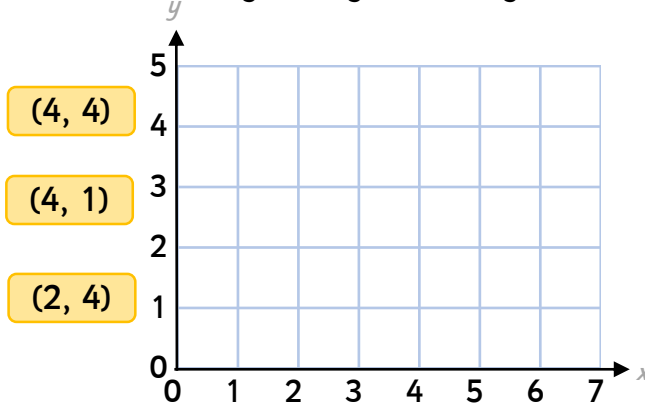


True or False?



VF

6b. These are the coordinates for the vertices of a right angled triangle.



True or False?



VF

Varied Fluency – Draw on a Grid

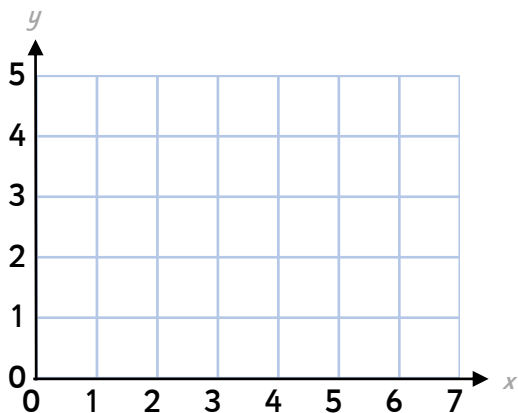
7a. Plot the points for the coordinates on the grid.

(7, 1)

(2, 4)

(6, 5)

(4, 3)



VF

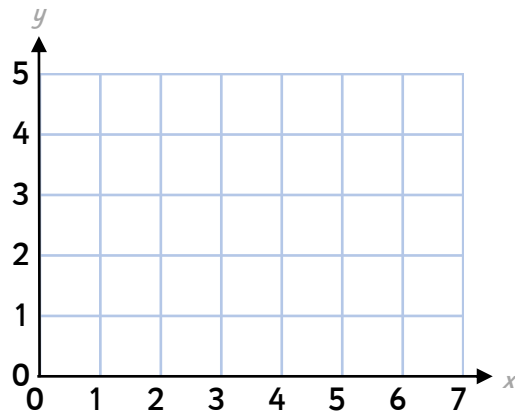
7b. Plot the points for the coordinates on the grid.

(1, 5)

(6, 3)

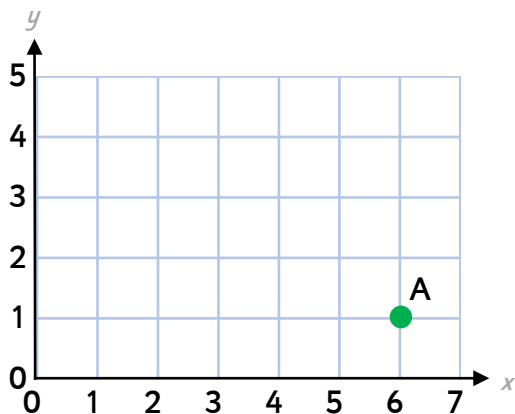
(3, 5)

(7, 4)



VF

8a. Draw a rectangle. Start at point A.

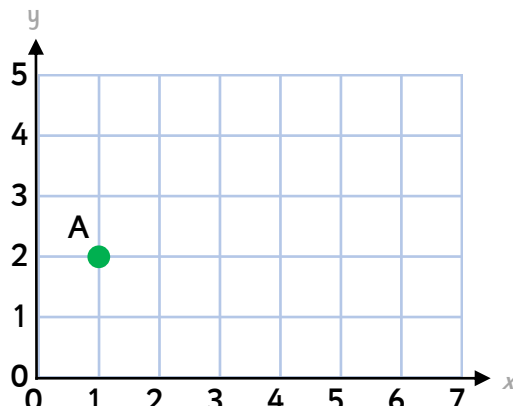


Write the coordinates.



VF

8b. Draw a parallelogram. Start at point A.



Write the coordinates.



VF

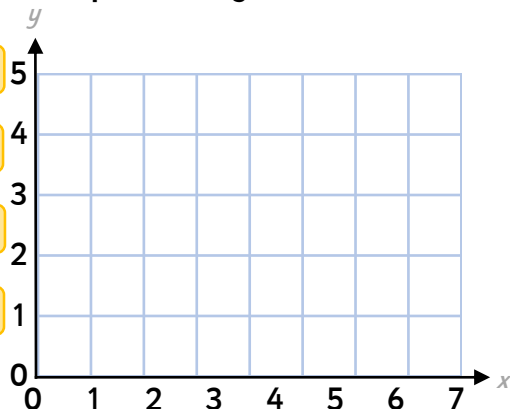
9a. These are the coordinates for the vertices of a parallelogram.

(1, 1)

(2, 3)

(4, 1)

(5, 3)



True or False?



VF

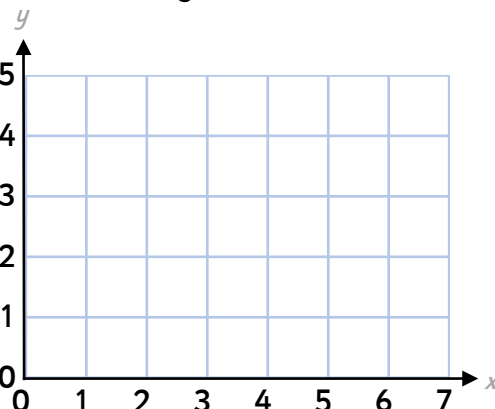
9b. These are the coordinates for the vertices of a rectangle.

(5, 4)

(5, 1)

(1, 1)

(1, 4)



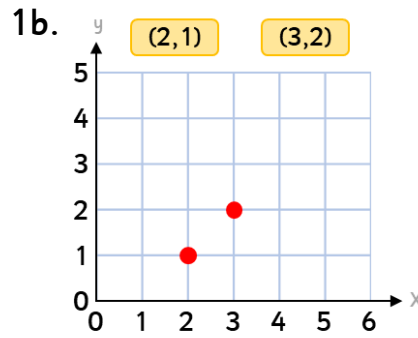
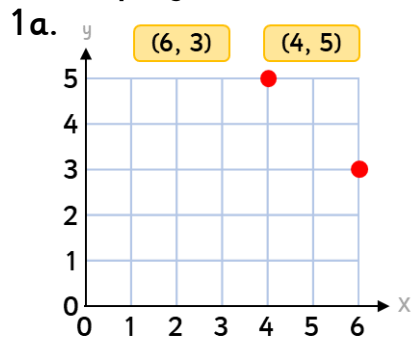
True or False?



VF

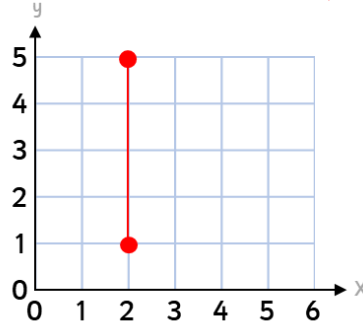
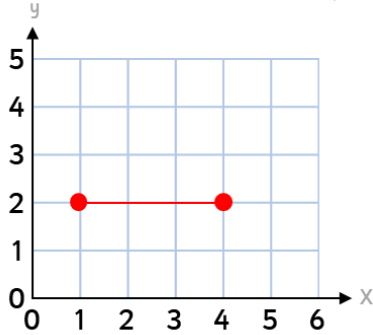
Varied Fluency – Draw on a Grid

Developing



2a. Possible answer: (1, 2) (4, 2)

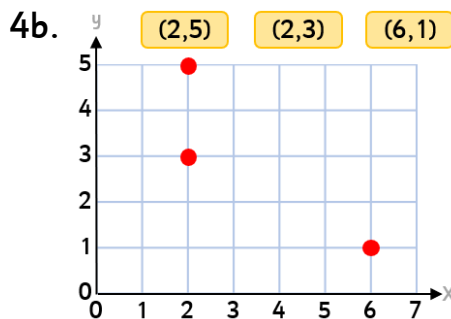
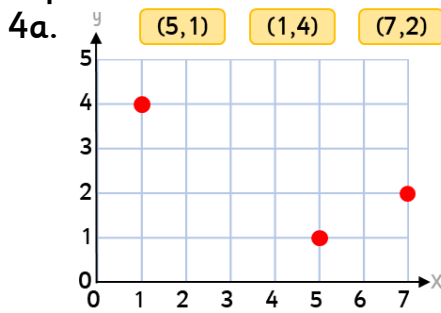
2b. Possible answer: (2, 1) (2, 5)



3a. True

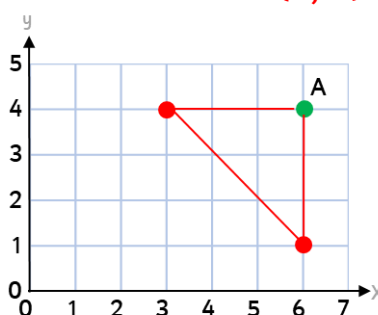
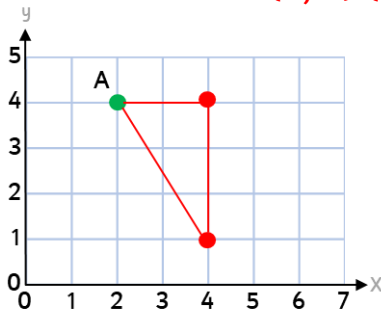
3b. True

Expected



5a. Possible answer: (4, 4) (4, 1)

5b. Possible answer: (6, 1) (3, 4)



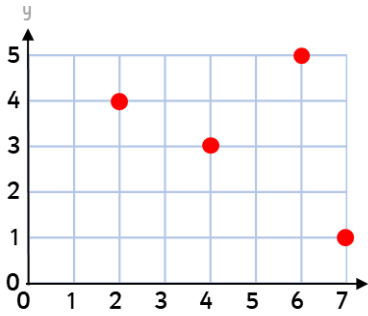
6a. False

6b. True

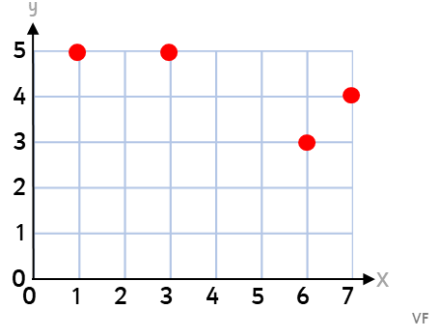
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Greater Depth

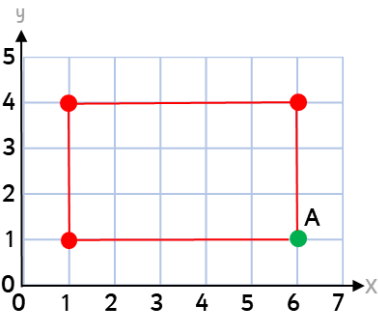
7a. (7,1) (2,4) (6,5) (4,3)



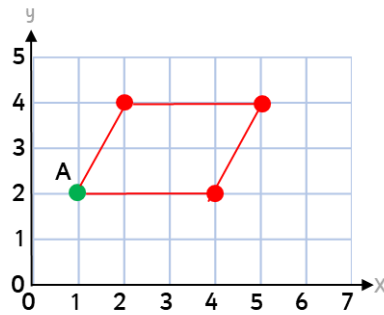
7b. (1,5) (6,3) (3,5) (7,4)



8a. Possible answer: (1, 1) (1, 4) (6, 4)



8b. Possible answer: (2, 4) (5, 4) (4, 2)



9a. True

9b. True