# Varied Fluency Step 2: Draw on a Grid

## National Curriculum Objectives:

Mathematics Year 4 : (4P3b) <u>Plot specified points and draw sides to complete a given</u> polygon

## Differentiation:

**Developing** Questions to support plotting coordinates in the first quadrant. Using up to 4 points, all points plotted on a 5x5 grid, using 1:1 scale, including plotting points to create squares and rectangles.

**Expected** Questions to support plotting coordinates in the first quadrant. Using up to 6 points, all points plotted on a 10x10 grid, using 1:1 scale, including plotting points to create squares, rectangles and right-angled triangles.

Greater Depth Questions to support plotting coordinates in the first quadrant. Using up to 6 points, all points plotted on a 10x10 grid, using varying scales with some points plotted between increments, including plotting points to create rectangles, right-angled triangles, parallelograms, pentagons and hexagons.

More <u>Year 4 Position and Direction</u> resources.

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Varied Fluency – Draw on a Grid – Teaching Information



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Varied Fluency – Draw on a Grid – Year 4 Developing



Varied Fluency – Draw on a Grid – Year 4 Expected

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Varied Fluency – Draw on a Grid – Year 4 Greater Depth

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2a. Various answers, for example: A horizontal line connecting (1, 2) (4, 2) 3a. True

### **Expected**



5a. Various answers, for example:
(2, 4) (4, 4) (4, 1)
6a. False, they are the coordinates of a rectangle.



8a. Various answers, for example: (30, 5) (45, 5) (30, 30) (45, 30) 9a. True

#### Developing



2b. Various answers, for example: A vertical line connecting (2, 1) (2, 4) 3b. True

#### **Expected**



5b. Various answers, for example: (6, 4) (6, 1) (3, 4) 6b. True



8b. Various answers, for example: (3, 6) (6, 15) (18, 15) (15, 6) 9b. True



Varied Fluency – Draw on a Grid ANSWERS