### Homework/Extension Step 1: Describe Position

### National Curriculum Objectives:

Mathematics Year 4: (4P3a) <u>Describe positions on a 2-D grid as coordinates in the first</u> <u>quadrant.</u>

### Differentiation:

CLASSBOOM

Questions 1, 4 and 7 (Varied Fluency)

Developing State whether the coordinates given are true or false. Using up to 4 points, all points plotted on a 5x5 grid, using 1:1 scale.

Expected State whether the coordinates given are true or false. Using up to 6 points, all points plotted on a 10x10 grid, using 1:1 scale.

Greater Depth State whether the coordinates given are true or false. Using up to 6 points, all points plotted on a 10x10 grid, using varying scales with some points plotted between increments.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify symbols using given coordinates. Using up to 4 points, all points plotted on a 5x5 grid, using 1:1 scale.

Expected Identify symbols using given coordinates. Using up to 6 points, all points plotted on a 10x10 grid, using 1:1 scale.

Greater Depth Identify symbols using given coordinates. Using up to 6 points, all points plotted on a 10x10 grid, using varying scales with some points plotted between increments.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Give the correct coordinates to make a given shape. Using up to 4 points, all points plotted on a 5x5 grid, using 1:1 scale.

Expected Give the correct coordinates to make a given shapes. Using up to 6 points, all points plotted on a 10x10 grid, using 1:1 scale.

Greater Depth Give the correct coordinates to make a given shapes. Using up to 6 points, all points plotted on a 10x10 grid, using varying scales with some points plotted between increments.

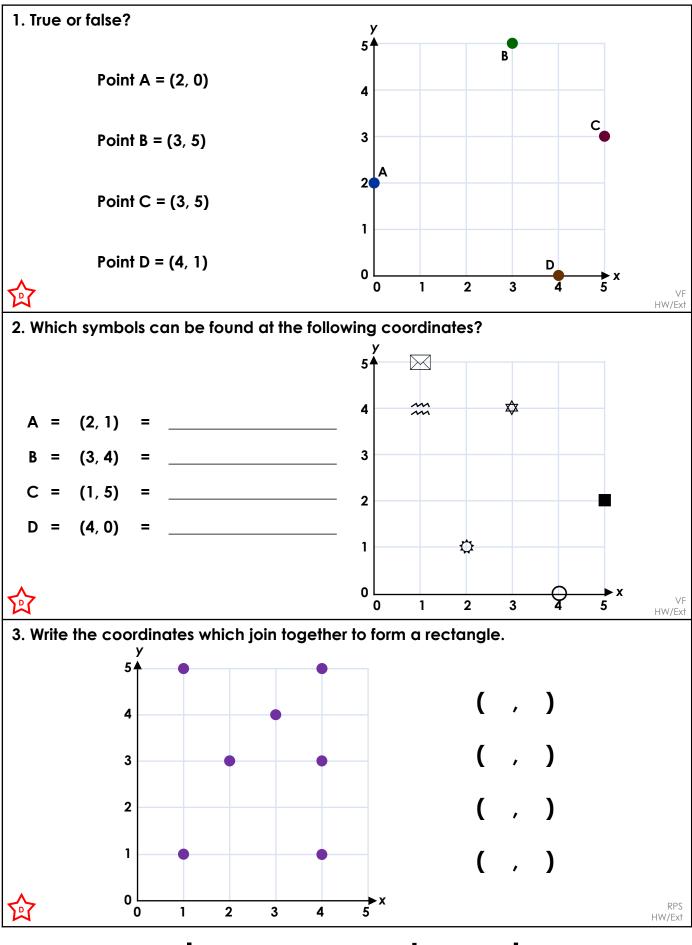
More Year 4 Position and Direction resources.

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### **Describe Position**

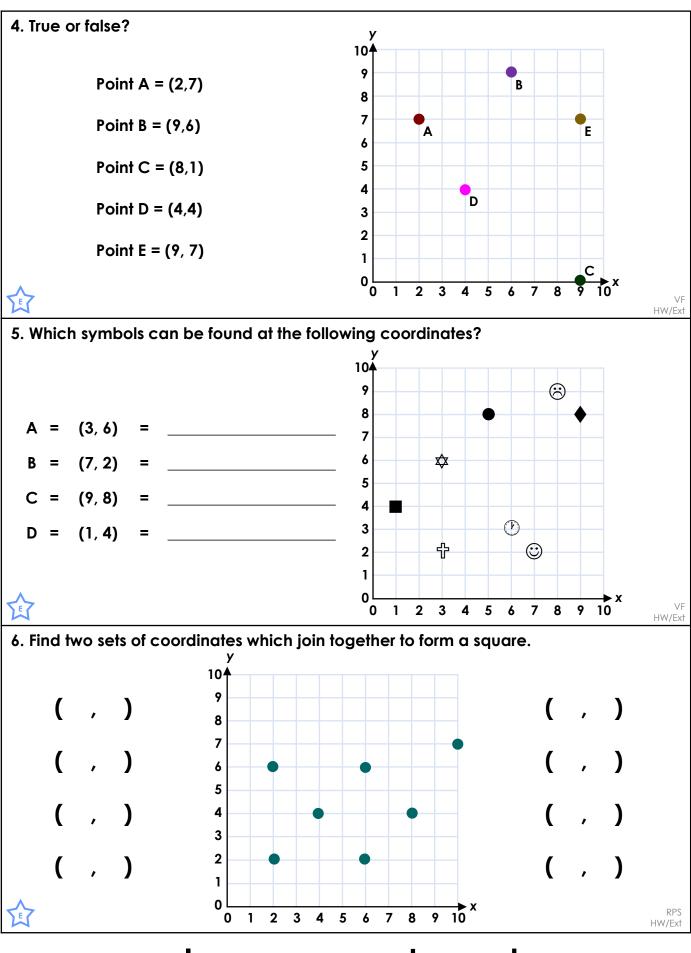


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Homework/Extension - Describe Position - Year 4 Developing

## **Describe Position**

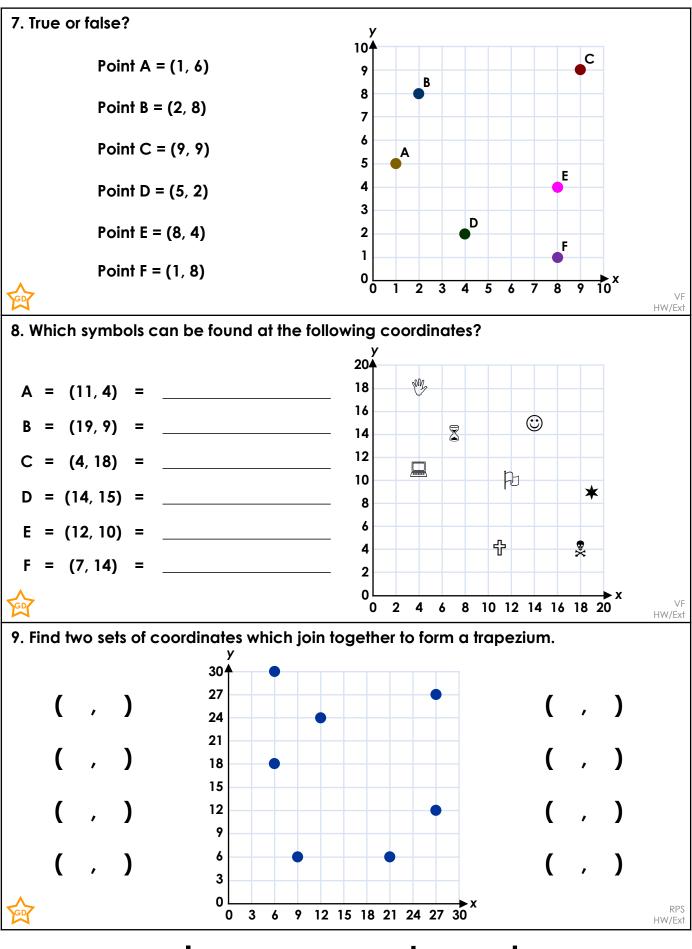


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Homework/Extension - Describe Position - Year 4 Expected

#### **Describe Position**



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Homework/Extension – Describe Position – Year 4 Greater Depth

#### Homework/Extension Describe Position

#### Developing

True – point B
 False – point A = (0,2); point C = (5,3) and point D = (4,0)
 A. sun; B. star; C. envelope and D. circle
 When joined, (1, 5), (4, 5), (4, 1) and (1, 1) form a rectangle.

#### **Expected**

4. True – points A, D and E
False – point B = (6,9); point C = (9,0)
5. A. star; B. smiley face; C. rhombus and D. square
6. When joined, (2,2), (6, 2), (6, 6) and (2, 6) make a square. When (4,4), (6,2), (6,6) and (8,4) are joined, they also form a square.

#### Greater Depth

7. True – points B, C and E False – point A = (1,5); point D = (4,2) and point F (8,1)

8. A. cross; B. star; C. hand; D. smiley face; E. flag and F. timer

9. When joined, (6, 18), (12, 24), (9, 6) and (27, 27) make a trapezium. When (9, 6), (27,

27), (21, 6) and (27, 12) are joined, they also form a trapezium.





Homework/Extension – Describe Position ANSWERS