## Homework/Extension

## Step 1: Describe Position

## National Curriculum Objectives:

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

## Differentiation:

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 $5 \times 5$ 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 $10 \times 10$ 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 $10 \times 10$ 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 $5 \times 5$ grid, using $1: 1$ scale.
Expected Identify symbols using given coordinates. Using up to 6 points, all points plotted on a $10 \times 10$ 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 $5 \times 5$ 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 $10 \times 10$ 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 $10 \times 10$ grid, using varying scales with some points plotted between increments.

## More Year 4 Position and Direction resources.

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

## Describe Position

1. True or false?

Point $A=(2,0)$

Point $B=(3,5)$

Point $C=(3,5)$

Point $D=(4,1)$

2. Which symbols can be found at the following coordinates?
$A=(2,1)=$
$B=(3,4)=$
$C=(1,5)=$ $\qquad$

$D=(4,0)=$
3. Write the coordinates which join together to form a rectangle.


## Describe Position

4. True or false?

Point $A=(2,7)$
Point $B=(9,6)$
Point $C=(8,1)$
Point $D=(4,4)$
Point $E=(9,7)$

5. Which symbols can be found at the following coordinates?

6. Find two sets of coordinates which join together to form a square.


## Describe Position

7. True or false?

8. Which symbols can be found at the following coordinates?
9. Find two sets of coordinates which join together to form a trapezium.


## Homework/Extension

## Describe Position

## Developing

1. True - point B

False - point $A=(0,2)$; point $C=(5,3)$ and point $D=(4,0)$
2. A. sun; B. star; C. envelope and D. circle
3. 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.

