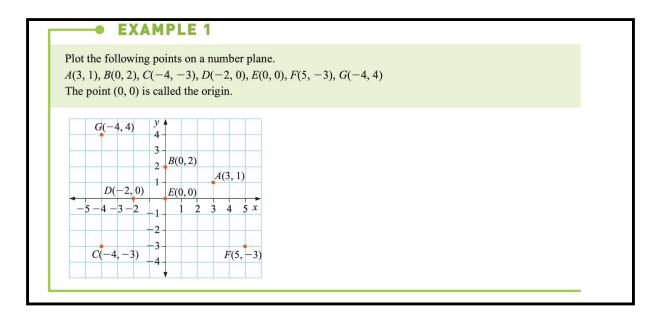
## Walt plot the given points

Success criteria I can read the cartesian's plane/ number plane and use x axis and y axis



Plot the following points first and then work on writing the pairs for the plotted points

1 Plot the following points on a number plane on grid paper.

**a** A(-3, -5)

**b** B(2, 6)

c C(5, -2)**d** D(6,-1)

**e** E(1, 1)

**f** F(-2, -5)

 $\mathbf{g} G(0,2)$ 

**h** H(3,0)

i I(3, -5)

J(-3,0)

**k** K(4, 3)

1 L(4, -5)

 $\mathbf{m} \ M(0,-2)$ 

O(0,0)

P(-3, -2)

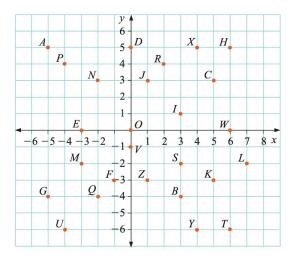
Q(4, -2)

**n** N(4, 4) r R(-5, -5)

S(-5,2)

t T(-1, 5)

2 Write the coordinates of the points plotted on this number plane.

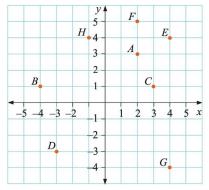


Use the link below to plot points

Interactive coordinate plots

Introduction to coordinate geometry

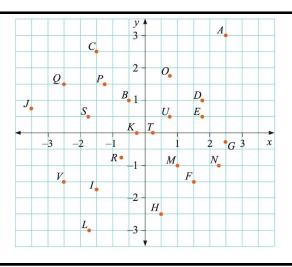
- 3 Eight points have been plotted on this number plane.
  - a Write the coordinates of the eight points.
  - **b** Name two points with the same *x*-coordinates. What do you notice about their positions on the number plane?
  - c Name two points with the same y-coordinates. What do you notice about their positions on the number plane?
  - **d** Name two points that have equal *x* and *y*-coordinates. What do you notice about their positions on the number plane?



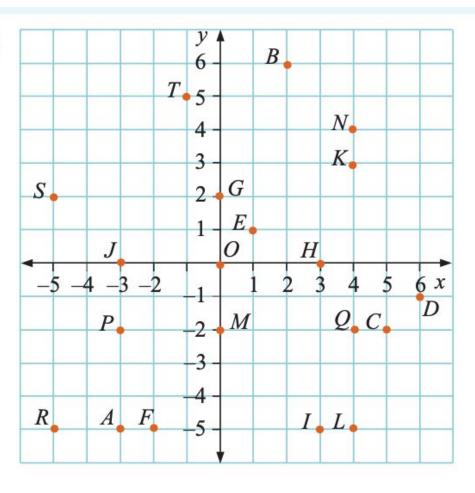
- 4 a Plot the points A(-3, 3), B(1, 3) and C(1, -1) on a number plane.
  - **b** If ABCD is a square, find the coordinates of the point D.
- 5 a Plot the points P(-4, 0), Q(-4, 5) and R(3, 5) on a number plane.
  - **b** If *PQRS* is a rectangle, find the coordinates of *S*.
- **6** a Plot the points A(-3, -2), B(-2, -1), C(-1, 0), D(0, 1), E(1, 2) on the same number plane.
  - **b** Join the points. What do you notice?
  - $\mathbf{c}$  What are the next three points (F, G and H) if the pattern continues?
- **7** a Plot the points A(5, 3), B(4, 2), C(3, 1), D(2, 0), E(1, -1) on the same number plane.
  - **b** What are the next three points (F, G and H) if the pattern continues?

## The numbers may not not be whole numbers

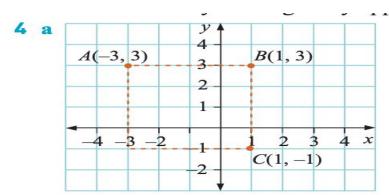
8 Write the coordinates of the points on this number plane. The coordinates may not be whole numbers.



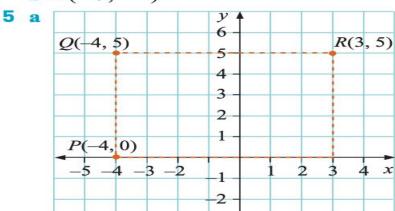
1

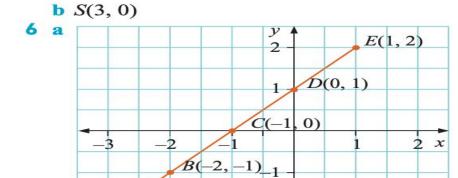


- **2** A(-5,5), B(3,-4), C(5,3), D(0,5), E(-3,0), F(-1,-3), G(-5,-4), H(6,5), I(3,1), J(1,3), K(5,-3), L(7,-2), M(-3,-2), N(-2,3), O(0,0), P(-4,4), Q(-2,-4), R(2,4), S(3,-2), T(6,-6), U(-4,-6), V(0,-1), W(6,0), X(4,5), Y(4,-6), Z(1,-3)
- 3 a A(2,3), B(-4,1), C(3,1), D(-3,-3), E(4,4), F(2,5), G(4,-4), H(-1,4)
  - **b** A and F and E and G as they are on the same vertical line.
  - **c** B and C and E and H as they are on the same horizontal line.
  - **d** D and E as they are diagonally opposite each other.



**b** D(-3,-1)



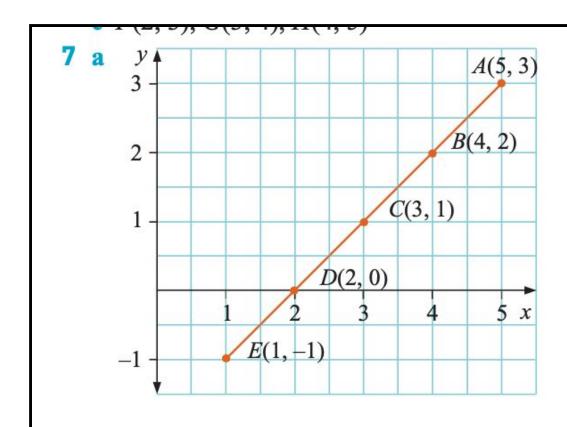


-2

b	They	are	on	a	str	aight	line.
	200-00-00-00-00-00-00-00-00-00-00-00-00-						10000

$$\mathbf{c}$$
  $F(2,3), G(3,4), H(4,5)$ 

A(-3, -2)



**b** 
$$F(0, -2), G(-1, -3), H(-2, -4)$$
**8**  $A(2\frac{1}{2}, 3), B(-\frac{1}{2}, 1), C(-1\frac{1}{2}, 2\frac{1}{2}), D(1\frac{3}{4}, 1), E(1\frac{3}{4}, \frac{1}{2}), F(1\frac{1}{2}, -1\frac{1}{2}), G(2\frac{1}{2}, -\frac{1}{4}), H(\frac{1}{2}, -2\frac{1}{2}), I(-1\frac{1}{2}, -1\frac{3}{4}), J(-3\frac{1}{2}, \frac{3}{4}), K(-\frac{1}{4}, 0), L(-1\frac{3}{4}, -3), M(1, -1), N(2\frac{1}{4}, -1), O(\frac{3}{4}, 1\frac{3}{4}), P(-1\frac{1}{4}, 1\frac{1}{2}), Q(-2\frac{1}{2}, 1\frac{1}{2}), R(-\frac{3}{4}, -\frac{3}{4}), S(-1\frac{3}{4}, \frac{1}{2}), T(\frac{1}{4}, 0), U(\frac{3}{4}, \frac{1}{2}), V(-2\frac{1}{2}, -1\frac{1}{2})$