

Year 9

Task 3

Focus for this week: Co-ordinates & midpoints

Essential learning:	Use positive and negative numbers
	Continue number patterns
Practising:	 Mark co-ordinates on a one quadrant co-ordinate grid
	 Drawing shapes on co-ordinate grids
Learning about:	 Positive and negative co-ordinates
	 Midpoints
Extension:	 Draw a line from an equation like y=3x + 4

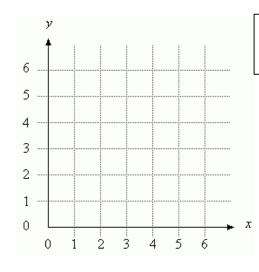
Yr9 Maths w/b 27/4/20: Worksheet 1 Number patterns & simple co-ordinates

Task 1:

Continue the following number patterns:

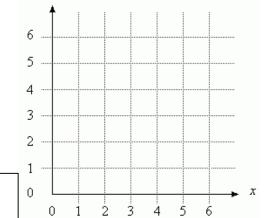
- a) 6, 9, 12, 15, 18,,,
- b) 40, 50, 60,,,
- c) -1, -2, -3, -4,,,,
- d) -2, -4, -6, -8,,,
- e) 6, 3, 0, -3,,,
- f) 13, 7, 1, -5, -11,,,,
- g) 4, -3, -10, -17, ,,,

Task 2: Make the following shapes on the co-ordinate grid



Square: (1,1) (4,1) (1,4) (4,4)

Triangle: (3,5) (5,5) (4,6)



Octagon: (2,5) (3,5) (4,4) (4,3) (3,2) (2,2) (1,3) (1,4)

Kite: (4,5) (5,6) (6,5) (5,3)

Yr9 Maths w/b 27/4/20: Worksheet 2 Positive and negative co-ordinates

To find a co-ordinate, you travel along the x axis (along the corridor) and then move up or down the y axis (up or down the stairs). We always write co-ordinates inside curvy brackets.

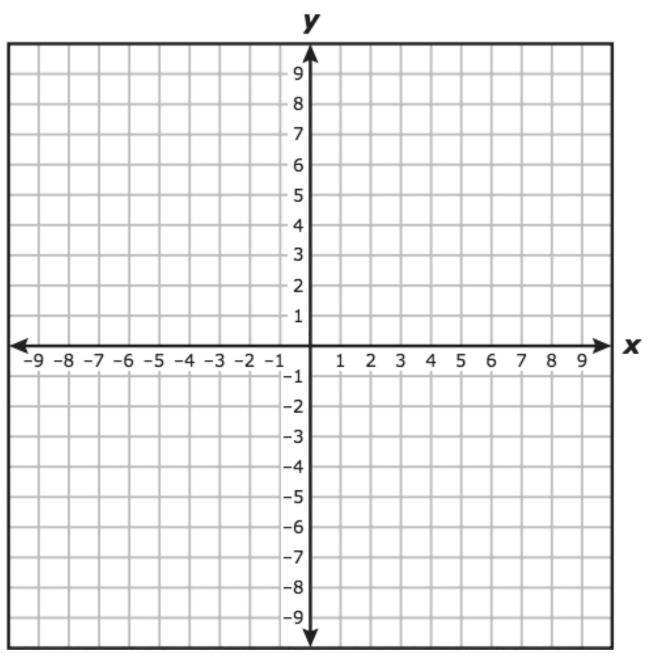
Create the following shapes on the co-ordinate grid below:

Square: (-8, 7) (-7,7) (-8,6) (-7,6) Triangle: (2,-9) (6,-9) (4,-10)

Trapezium: (7,8) (8,8) (9,7) (6,7) Kite: (6,2) (8,0) (4,0) (6,-5)

Rectangle: (-10, 6) (-10, 4) (-4, 6) (-4, 4) Parallelogram: (-10, -6) (-9, -4) (-3, -4) (-4, -6)

Hexagon: (0,0) (-1,0) (-2,-1) (-1, -2) (0,-2) (1,-1)

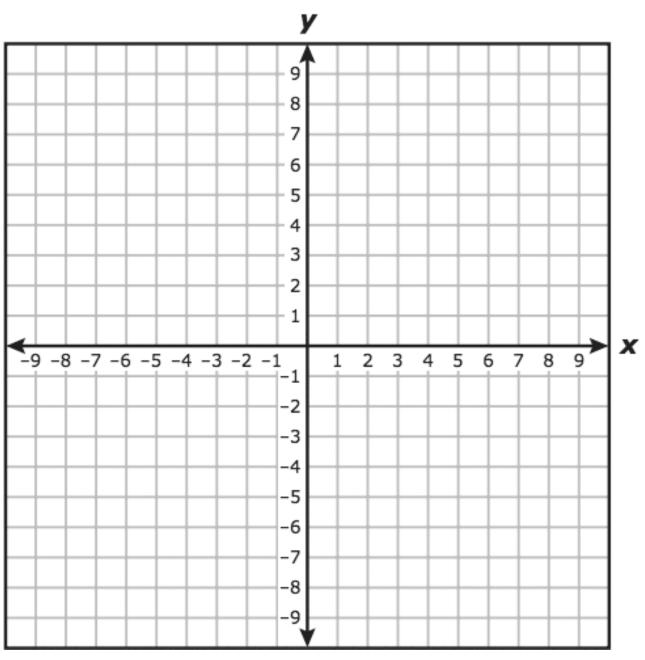


Yr9 Maths w/b 27/4/20: Worksheet 3 Midpoints

The midpoint of a line is the co-ordinate in the middle of a line.

Put a cross on each of the two points. Join them to make a line. Write down the co-ordinate in the middle of the line in the space provided.

a) $(1,1)$ $(1,6)$ Midpoint = $($



Yr9 Maths w/b 27/4/20: Worksheet 4 Number patterns on a co-ordinate graph

a) Draw a straight line through the points (-6,4) (-2, 4) and (1,4).
b) Write three other co-ordinates that are on this line (,) (,)
c) Draw a straight line through the points (-6,4) (-6, 0) and (-6,-4).
d) Write three other co-ordinates that are on this line (,) (,)
e) Draw a straight line through the points (-6,-6) (-2, -2) and (4,4).
f) Write three other co-ordinates that are on this line (,) (,) (,)
g) Draw a straight line through the points (-5,-1) (-3, -1) and (2,-1).
h) Write three other co-ordinates that are on this line (,) (,)
i) Draw a straight line through the points (8,7) (8, -9) and (8,0).
j) Write three other co-ordinates that are on this line (,) (,)
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