



Plotting Coordinates and Shapes

- Plot the points A (1,1), B (-6,5) and C (1,9).
 - Join A to B and B to C.
 - Plot the point D so that ABCD is a rhombus.
 - On your graph, write the coordinate of D.
 - Draw the lines of symmetry on the rhombus. What are the coordinates of the point where the lines meet?
- Plot the points R (-5,-6), S (-8,3) and T (-5,8).
 - Join R to S and S to T.
 - Plot the point U so that RSTU is a Kite.
 - On your graph, write the coordinate of U.
 - Draw the diagonals on the Kite. What are the coordinates of the point where the diagonals meet?
- Plot the points P (-4,3), Q (-2,7) and R (10,1).
 - Join P to Q and Q to R.
 - Plot the point S so that PQRS is a rectangle.
 - On your graph, write the coordinate of S.
 - Draw the lines of symmetry on the rectangle. What are the coordinates of the point where the lines meet?
- Plot the points Q (-1,2), M (3,4) and N (7,2).
 - Join up the points to make a triangle.
 - What type of triangle is QMN?
 - Calculate the area of the triangle.
- Plot the points A (-7,-8), B (-2,-2) and C (4,-8).
 - Join up the points to make a triangle.
 - What type of triangle is ABC?
 - Calculate the area of the triangle.
- Plot the points A (5,2), B (-4,5) and C (-5,2).
 - Join the points ABC to make a triangle
 - What is the area of the triangle
 - Plot the point D so that ABCD is a Kite
 - On your graph, write the coordinate of D.
 - Calculate the area of the Kite (use part b. to help)
 - Plot the point E so that ABCE is a rectangle.
 - On your graph, write the coordinate of E.
 - What is the area of the rectangle?

