Puzzles & Problems
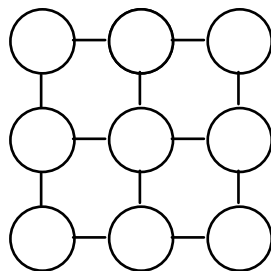
CONSECUTIVE numbers are numbers which follow on continuously from one another, eg. 12 and 13, or 43 and 44.

1) Find three consecutive numbers which add up to 39.

2) Find three consecutive numbers which add up to 66.

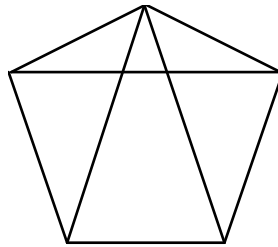A PRODUCT is an answer that you get when you multiply two or more numbers by each other.

3) Find a pair of numbers with:

      a) a sum of 11 and a product of 24.

      b) a sum of 40 and a product of 400.

      c) a sum of 15 and a product of 54.

4) Find three consecutive numbers with a total of 333.

5) Find two consecutive numbers with a product of 182.

6) Find two consecutive numbers with a product of 1332.

7) Find two numbers with a product of 899.

8) Arrange the numbers 1, 2, 3, 4, 5, 6, 7, 8 and 9 in the circles so that each side of the square adds up to 12.
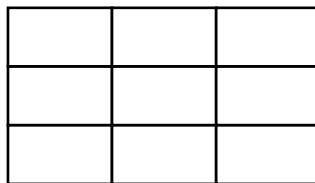
9) Draw three rings. Use each of the numbers from 1 to 9. Write them in the rings so that each ring has a total of 15.

10) How many different rectangles can you make using 12 squares on your page? Draw them.

11) Count all the triangles in this diagram and draw them:

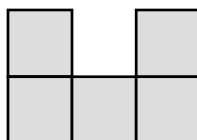12) Count all the rectangles in this diagram and draw them:

[N.B. there are probably more than you think! - more than 20]

13) Copy & complete this multiplication table:

x		4	9	
		8	18	
3		12		
	35			14
				2

14) This is half a shape:

Sketch some of the different whole shapes the original could have been. Mark any line of symmetry of these shapes.