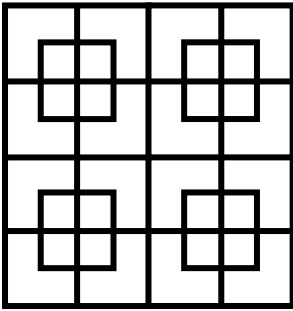


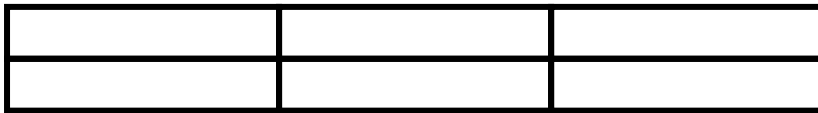
## Virtual Maths Club – example problems



What is the total number of squares in this diagram?

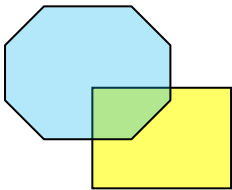
OR:

What is the total number of rectangles in this diagram?



The doors in a new school are to be numbered from 1 to 100.

How many 9s will be needed?



$\frac{7}{8}$  of the area of the octagon is shaded blue and 80% of the area of the rectangle is shaded yellow.

The area of how many octagons = the area of 24 rectangles?

The ratio of Beegee's age to Ozzie's age is 1 : 4

The ratio of Ozzie's age to Phoebe's age is 2 : 5

Express Beegee's age as a percentage of Phoebe's age.