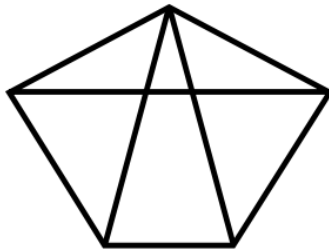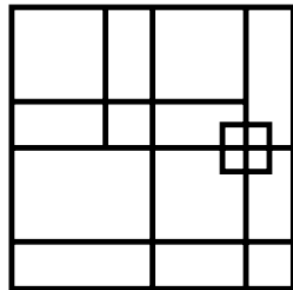# June Maths Challenge

Choose a challenge to solve.

Challenge 1:

1. How many triangles can you count?

2. How many squares can you count?

3. Draw your own diagram to count triangles.
   Don't use too many lines!
   How many triangles can a friend find?
   Can you find more?

Challenge 2:

36 people live in the eight houses in Albert Square.
Each house has a different number of people living in it.
Each line of three houses has 15 people living in it.
How many people live in each house?

Challenge 3:

I have fifteen cards numbered $1 - 15$.

I put down seven of them on the table in a row.

The numbers on the first two cards add to 15.
The numbers on the second and third cards add to 20.
The numbers on the third and fourth cards add to 23.
The numbers on the fourth and fifth cards add to 16.
The numbers on the fifth and sixth cards add to 18.
The numbers on the sixth and seventh cards add to 21.

What are my cards?

Can you find any other solutions?