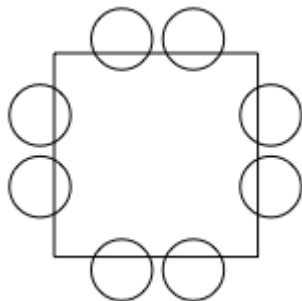


MATHS 1.7.20 4C and 4F Activity

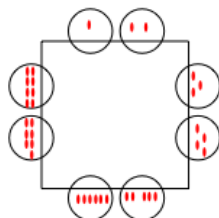
Some maths investigations today. Try drawing diagrams to help you.

Sitting Round the Party Tables

So, you are at the party and sitting around the table with seven friends.



At the top left-hand corner is the friend who is giving the party. She or he has a bag of sweets and starts giving them out in a clockwise direction: one for themselves, two for the next person and three for the next and so on.



There are other similar parties going on at the same time. They have bigger square tables with more children sitting round on each side.

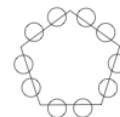
Explore and compare all the tables: 2 on each side, 3 on each side, 4 on each side and 5 on each side.

You could look at:

the total number of sweets that children sitting opposite each other have;

the total number of sweets needed for each size of the table;

the total number of sweets belonging to children who are diagonally opposite.



Then, what about five- and six-sided tables?

Zios and Zepts

On the planet Vuv there are two sorts of creatures. The Zios have 3 legs and the Zepts have 7 legs.



The great planetary explorer Nico, who first discovered the planet, saw a crowd of Zios and Zepts. He managed to see that there was more than one of each kind of creature before they saw him. Suddenly they all rolled over onto their backs and put their legs in the air.

He counted 52 legs. How many Zios and how many Zepts were there?

Do you think there are any different answers?