

Ron and Amir are making sandcastle towers.
First they build 2 on the bottom.
Then they build one on top.

How many sandcastles would they need if they made a tower with 3 at the base?

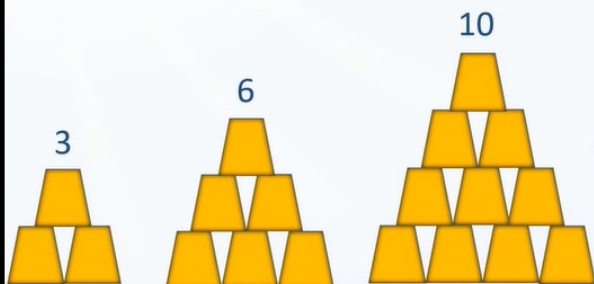
What if there were 4 sandcastles on the base?



Have a think

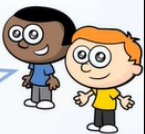
Can you continue the pattern?
What do you notice?

Have a think



Ron and Amir have been collecting shells to decorate their sandcastle towers.

Can you guess how many we've collected?



We collected fewer than 60 shells.

We can put them into groups of 5, with no shells left over.

We collected an odd number of shells.

The digits of the number add to more than 8

The digits of the number are not the same.

Have a think

Whitney and Eva have also been collecting shells.

Can you guess how many we've collected?

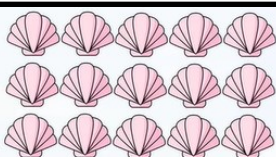
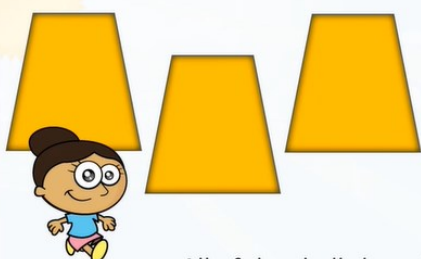


We have fewer than 30 shells.

If we put them into groups of 5, there are 3 left over.

If we put them into groups of 8, there are 4 left over.

Have a think



Dora has 15 shells to decorate 3 sandcastles.

Have a think

All of the shells have been used.

There is an odd amount of shells on each sandcastle.

Each sandcastle has a different amount of shells.

How many different possible combinations are there?