

Helping out in the kitchen...

The Broad Beans Challenges

Challenge 1:

Mandy and Jenny like helping dad in the kitchen.

Today they are snapping broad beans pods to collect the beans.

Dad gives **each daughter, 3 pods** to snap.

After snapping the pods, **each child had more than 9** broad beans each.

They all put the beans in one bowl and there are **33 beans in all**.



How many combinations of two sets of beans can you find?

Hint: You can use the Act-it-out strategy (using bottle caps) or the drawing strategy to work this out.

Challenge 2:

Their brother Jason takes **up to 20 beans** from the bowl.

He **groups his beans in fours** and he has **3 left over**.

He **groups his beans in fives** and he has **4 left over**.

How many beans does Jason have?



Hint: You can use the Act-it-out strategy (using bottle caps) or make an organised list and look for a pattern in the numbers to find all possible combinations.