

Bags of Apples Challenge



Coco and Colin have collected some apples.
There are fewer than 50 apples in total.

They are trying to put all the apples into bags with an equal number of apples in each bag.



Coco tries to put them all into bags of 3 apples
but has one left over.

How many apples could there be in total?



Colin tries to put them all into bags of 4 apples but
he has one left over as well.

Investigate the different number of apples they could have.

What do you notice?



KeePuppI comes along and puts the same apples
into bags of 5 apples.

It works exactly!

How many apples did they have in total?

Bags of Apples Challenge Answers



Bags of 3	Bags of 4
Total apples	Total apples
4	5
7	9
10	13
13	17
16	21
19	25
22	29
25	33
28	37 etc
etc	

Possible numbers of apples: 13, 25, 37, 49

Goes up in 12s because $3 \times 4 = 12$

With KeePuppl

25 apples