# Dog chews

*Children find a multiple of 50 and a multiple for 4 with a given total.*

## Skills practised:

- Counting in steps for 50 and in steps of 4
- Adding multiples of 50 and 4

***Conjecture**: It is possible to demonstrate that all possibilities in this context have been found.*

## What to do:

*Children work individually or in pairs.*

1. Jinny runs a pet shop. She sells dog chews in value bags of 50, and in small treat bags of 4.
2. She has 166 chicken chews in stock. There are 7 bags in total. How many bags of 50 chews and how many bags of 4 chews does she have?
3. She has 232 beef chews, in a total of 12 bags. How many bags of 50 chews and how many bags of 4 chews does she have?
4. Jinny has six bags in total. What numbers of chews could she have?

HINT: Count in 50s, and then in 4s to help you to work out the answers.

Choose your own number of bags of 50 and bags of 4 and work out the total number of chews. Then write a problem like 2 and 3 above for a friend.

## Aims:

– To add multiples of two different numbers to reach a given total
– To work systematically to find all possibilities

## Minimum number of calculations expected

10

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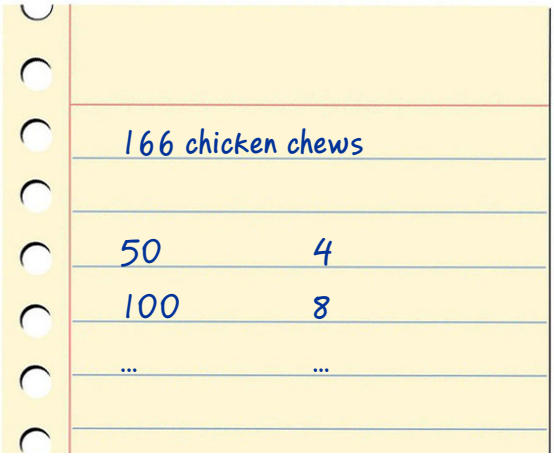


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