

Year 2: Subtraction: Use partitioning to support subtraction

Hungry Hamsters

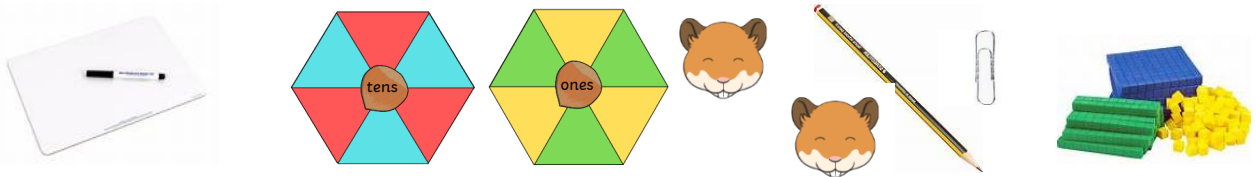
Aim of the Game

Who will finish feeding their hamster first? Find out how many nuts the hamsters want, work out how many nuts are left and see if you finish feeding your hamster first!

Before you start

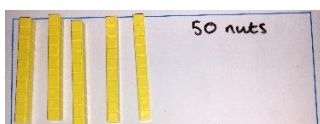
Have a chat about pets and hamsters – have they ever seen one? Do they have pets? What do they eat? Etc. Feel free to change the context of the game to suit the child.

You will need



Play

- One spinner is to generate tens numbers, the other to generate ones. Choose numbers to suit to the child and decide on a total number of nuts to begin with. You can use dice instead if preferred. Cut out or draw your own hamsters to feed!
- Use the paperclip and a pencil to make a spinner. Spin each spinner to find the total number of nuts to feed your hamster on your turn.
- Think aloud the process using base ten to support their understanding.
- Continue taking turns until a hamster has all the nuts!

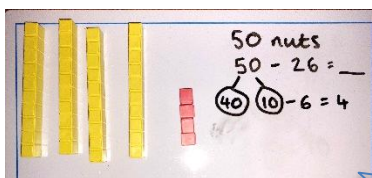


50 nuts

I have 50 nuts to begin with.

My hamster needs 6 nuts and 20 nuts which is 26 nuts in total. I need to find out how many nuts I will have left.

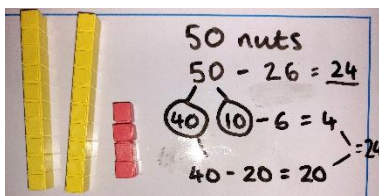
$$50 - 26 = \underline{\quad}$$



$$\begin{array}{r} 50 \text{ nuts} \\ 50 - 26 = \underline{\quad} \\ 40 \quad 10 - 6 = 4 \end{array}$$

First, I subtract 6 from the ones but I have zero ones. I can take 6 from one of the 10s instead.

10 subtract 6 is 4. Now I have 44 nuts left.



$$\begin{array}{r} 50 \text{ nuts} \\ 50 - 26 = \underline{24} \\ 40 \quad 10 - 6 = 4 \\ 40 - 20 = 20 \end{array}$$

Finally, I subtract 2 tens from 44 which is 24.

So, I have 24 nuts left. $50 - 26 = 24$

Adapt: Try representing this on a number line racing down to zero.

