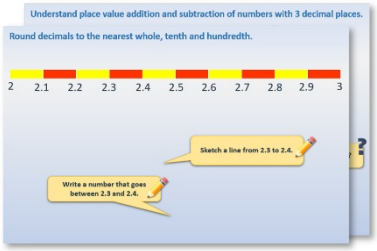
Week 7, Day 3
Finding change

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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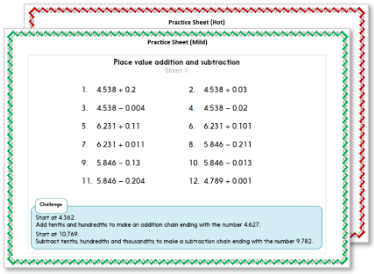
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.



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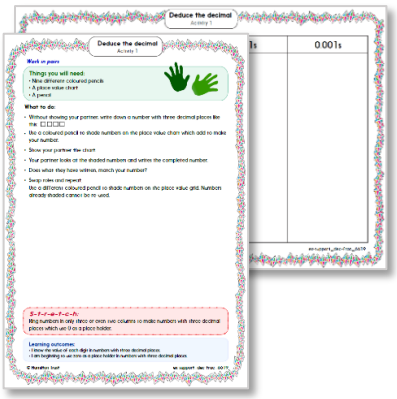
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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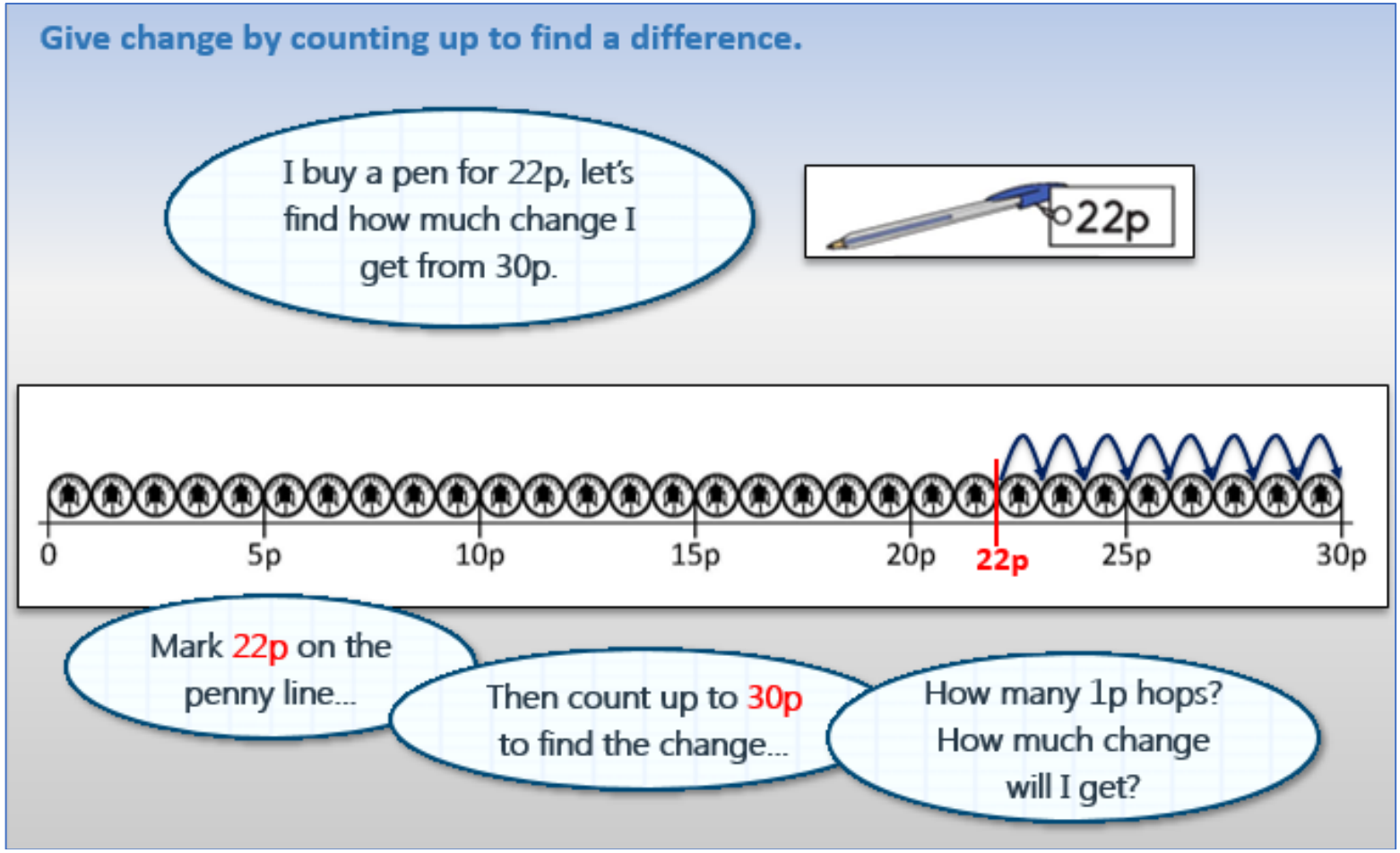
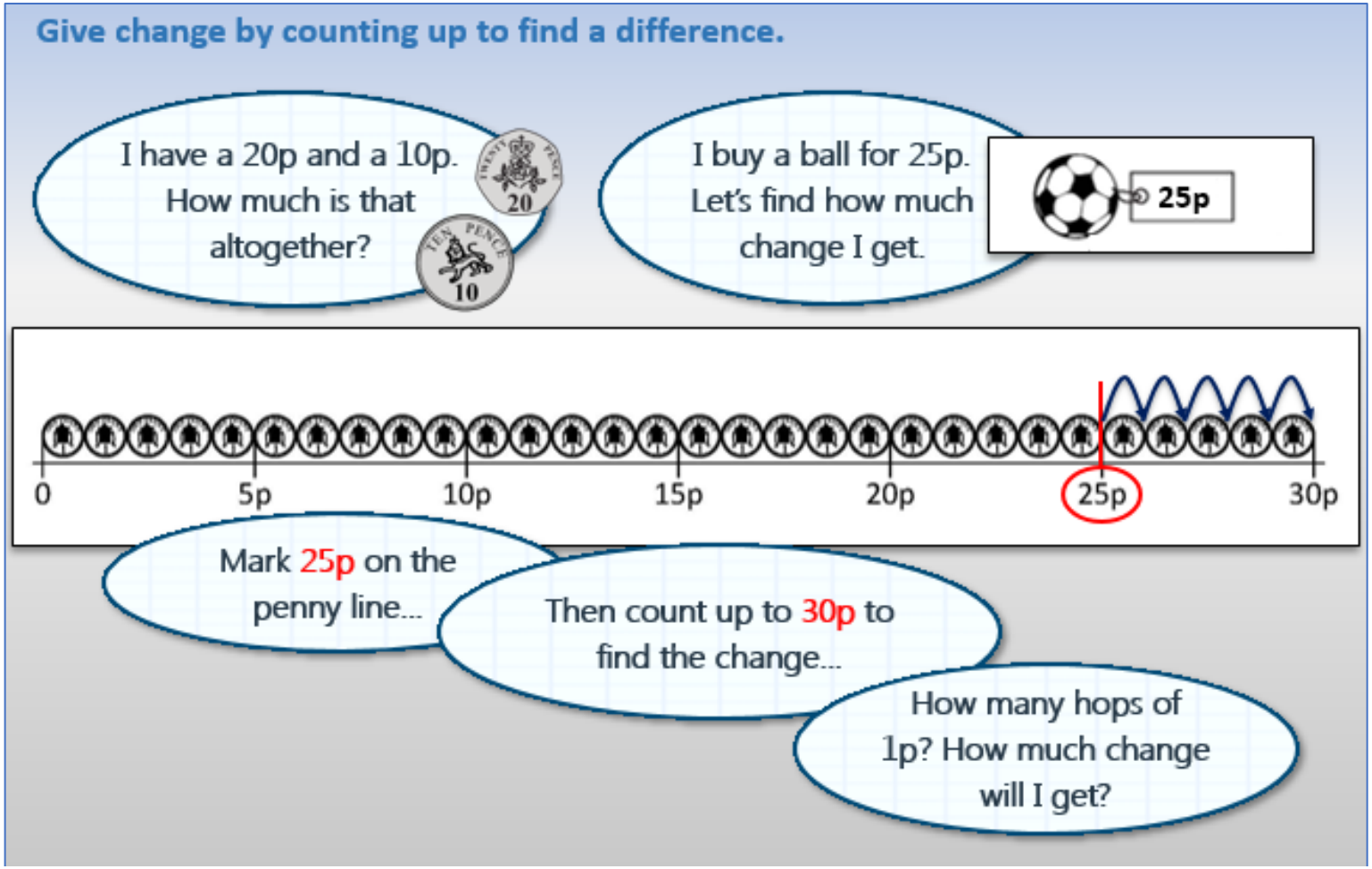
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**…

Learning Reminders



Learning Reminders

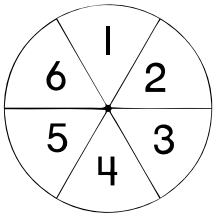


Practice Sheet Mild

Toy shop

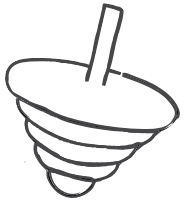
Choose a toy to buy. Calculate the change from 20p.

17p

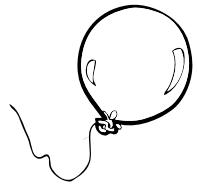


13p

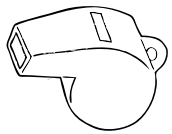
19p



10p

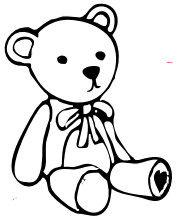


15p



18p

16p



11p

14p

12p

13p

9p

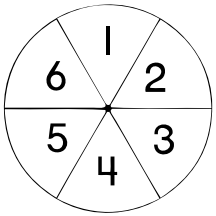
7p

Practice Sheet Hot

Toy shop

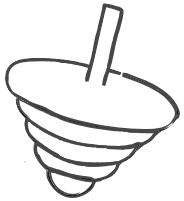
Choose a toy to buy. Calculate the change from 20p, or from 30p if it costs more than 20p.

17p



23p

29p



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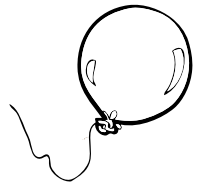
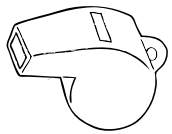
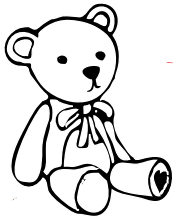


5p



25p

28p



15p

22p

20p

21p

19p

24p

Practice Sheet Answers

Toy shop (mild)

20p - 17p = 3p
20p - 13p = 7p
20p - 19p = 1p
20p - 10p = 10p
20p - 15p = 5p
20p - 18p = 2p
20p - 16p = 4p
20p - 11p = 9p
20p - 14p = 6p
20p - 12p = 8p
20p - 13p = 7p
20p - 9p = 11p
20p - 7p = 13p

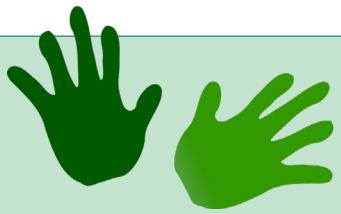
Toy shop (hot)

20p - 17p = 3p
30p - 23p = 7p
30p - 29p = 1p
20p - 10p = 10p
20p - 5p = 15p
30p - 25p = 5p
30p - 28p = 2p
20p - 15p = 5p
30p - 22p = 8p
30p - 20p = 10p
30p - 21p = 9p
20p - 19p = 1p
30p - 24p = 6p

A Bit Stuck?
Sweet shop

Work in pairs

Things you will need:
- 1p and 10p coins
- Money lines
- A pencil



What to do:

- Take it in turns to be the shopkeeper and the customer.
- The customer chooses a sweet and gives the shopkeeper 10p.
- The shopkeeper uses the money line to find the change from 10p.
  The shopkeeper gives the change to the customer.
- Both people write the change by the sweet.

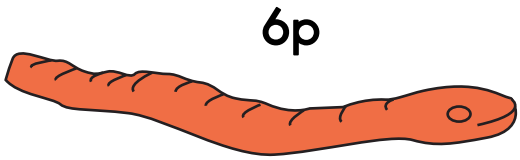
S-t-r-e-t-c-h:
Use pairs to 10 to help find the change.

Learning outcomes:
- I can find the change from 10p using a money line.
- I am beginning to use pairs to 10 to find change from 10p

A Bit Stuck?
Sweet shop

Change ☐ p

Change ☐ p



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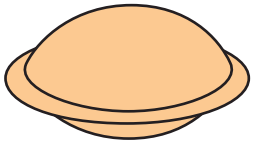

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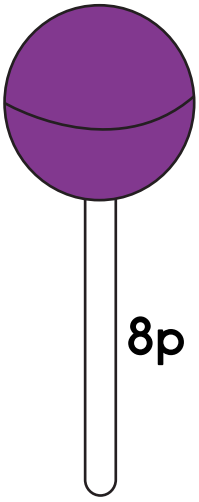

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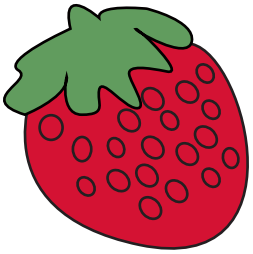

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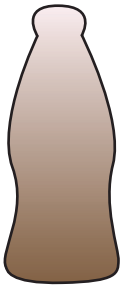

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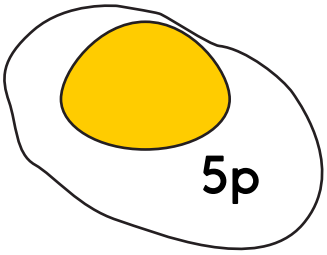

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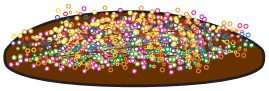
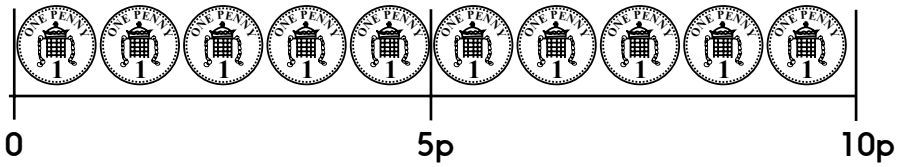
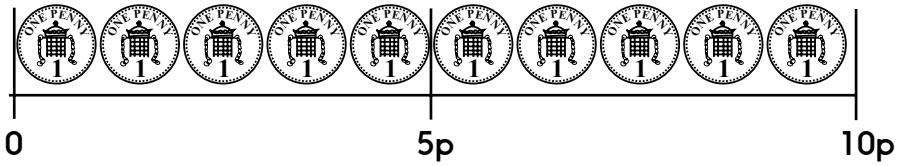
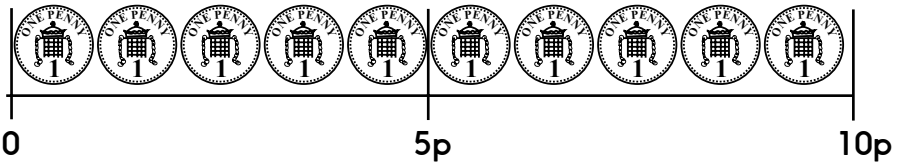


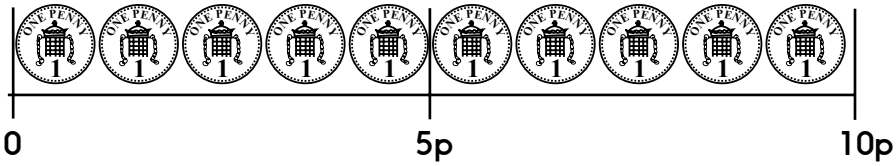
Change ☐ p

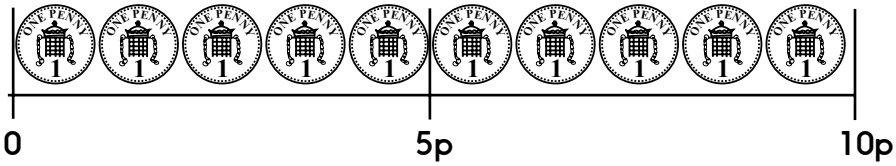
A Bit Stuck?
Sweet shop

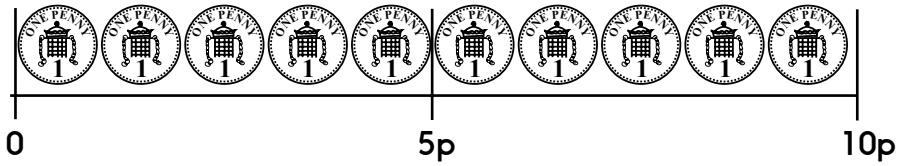












Investigation
Change challenge

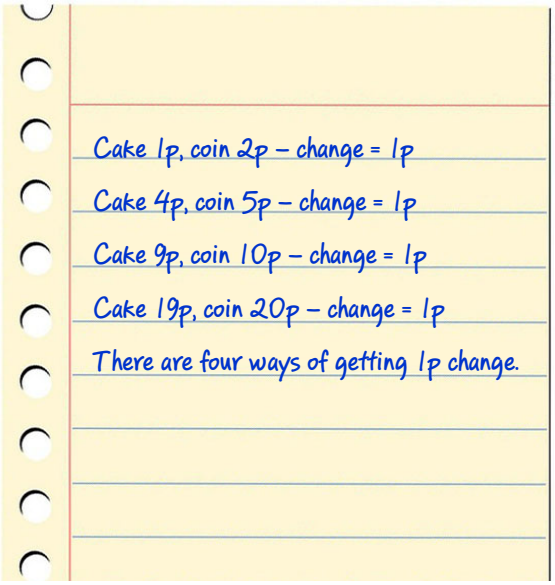
1. Choose a cake.
   Choose a coin to buy it.
   Calculate the change.
   Write it down.

2. Repeat this five times.

3. Talk to someone else.
   What different amounts of change have they written in their list?

4. How many ways can you make different amounts of change?

   Explore this – trying to be logical...

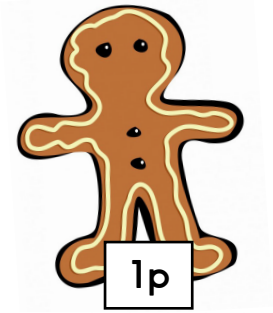


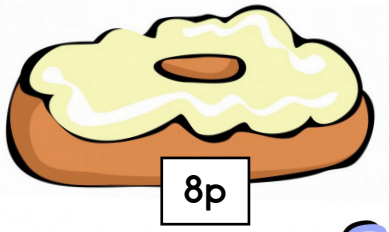
Challenge

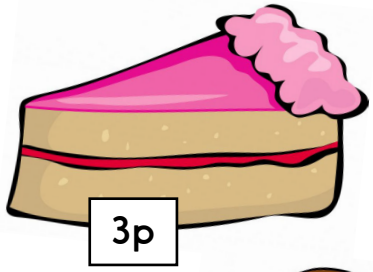
Using these coins and these cakes...
How many ways can you make each possible amount of change?

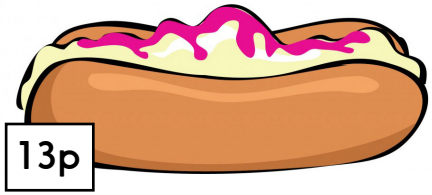
Investigation

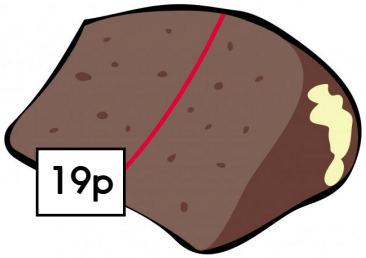
Change challenge

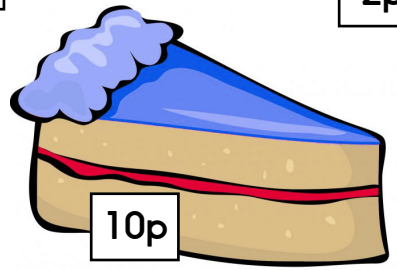


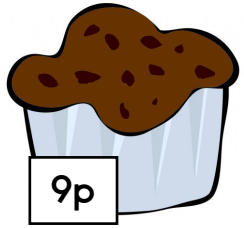


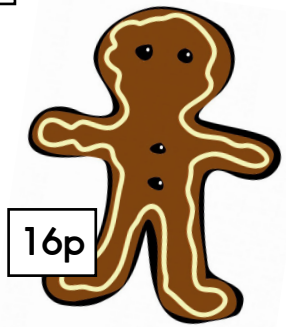


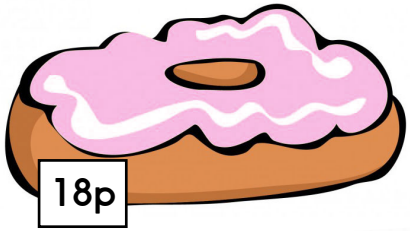


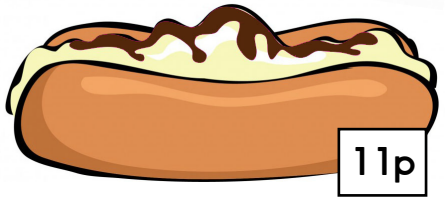


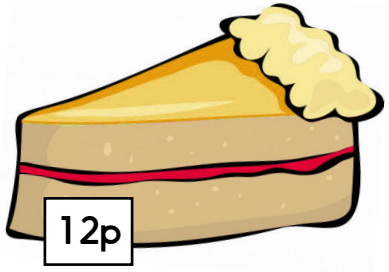


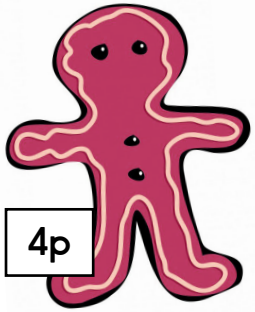


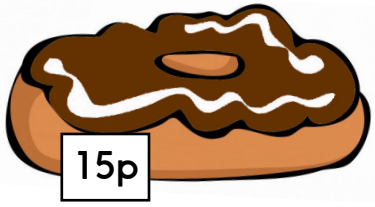


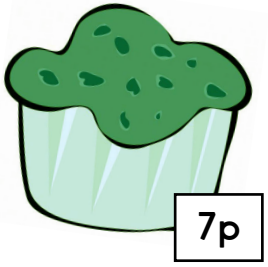












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