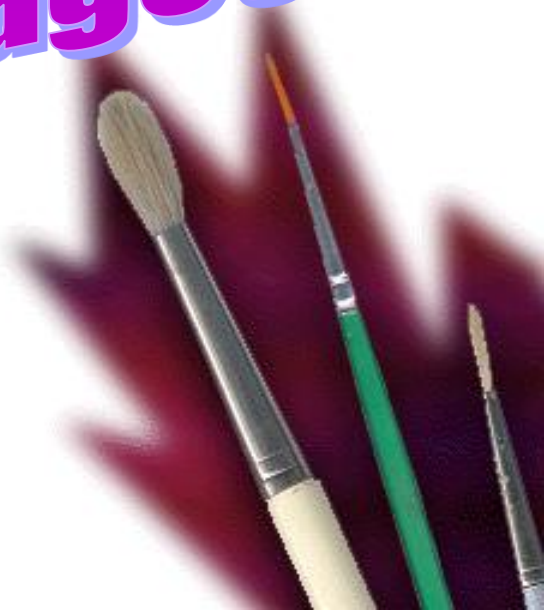
Dr Fog Presents

Putting percentages in context by looking at special offers on household packages.

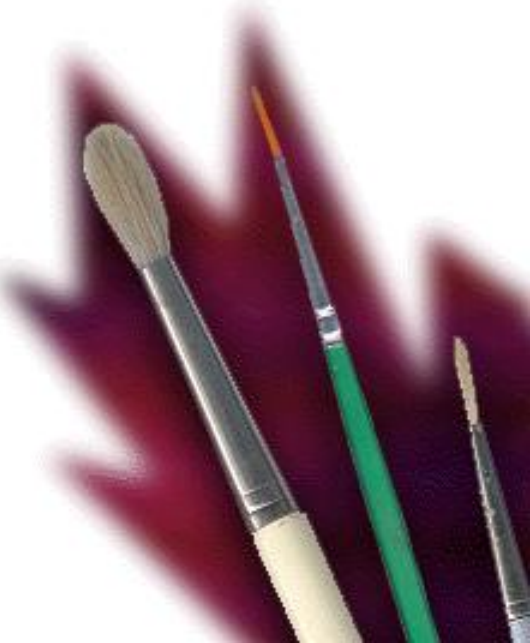


Year 6 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)

Resources

- At least five packages of, for example, toothpaste with 'special offers' stated as a % such as 10% off or 15 % extra free.

- Some real examples essential. Photocopy these to make enough for class.



Mental Learning Objective

- Understanding percentage as a fraction of 100.

Mental Learning Task

- Today you are going to do some work on special offers such as 5% off.

- What does 'per cent' mean?

Mental Learning Task

- First we are going to look at some problems using 10% extra.

Mental Learning Task

- A class had exactly 30 pupils in it. Then they were told to expect an extra 10% joining from another school.

- How many were joining?

- What was the new number of pupils in the class?

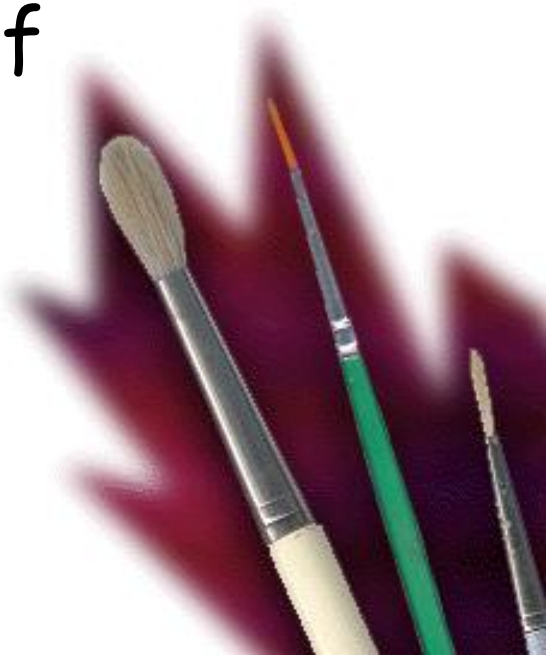
Mental Learning Objective

- Understanding percentage as a fraction of 100.

Main Learning Objective

- Express simple fractions as a percentage and vice versa.

- Finding simple percentages of quantities involving numbers up to three digits.



Key idea

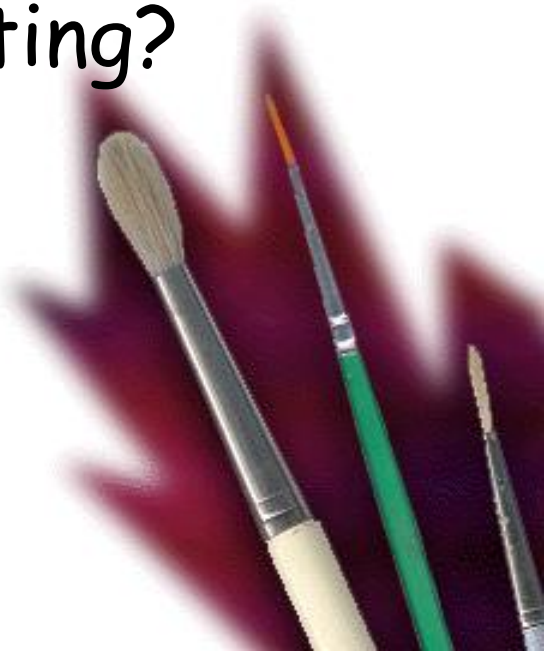
You can work out percentages by dividing by 100 to find 1%.

Main Learning Task

- Look at the packages collected by the class that have offers stated in terms of percentages.

Main Learning Task

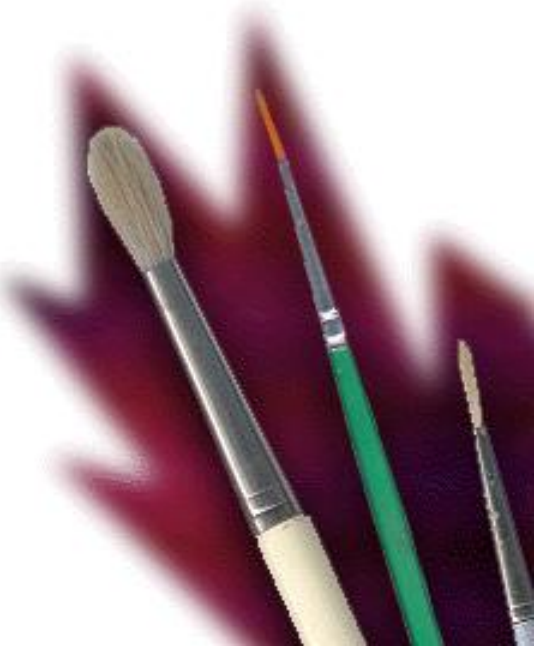
- What is the weight, cost or volume of each of the products normally?
- How much extra are you getting?
- Is it correct?



Main Learning Task

- Work in pairs:-
- Find the extra quantities on table below or own products.

Volume added	Normal Amounts
10% extra free	300g toothpaste
5% extra	100g skin cream
10% extra	60g toothpaste
13% extra	200g shaving cream
18% extra	180ml mouthwash



Main Learning Task

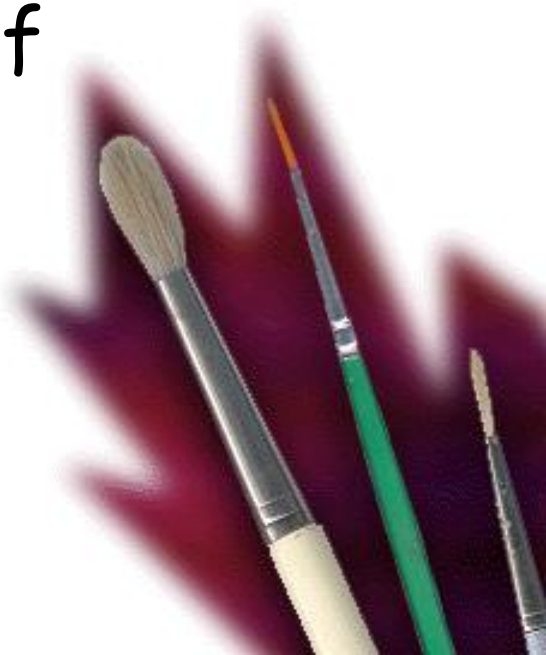
- Simplification:- Model the problems using actual weights.

- Challenge:- Invent some more claims. Slip in one or two false ones.
- Can your partner find the deliberate mistakes?

Main Learning Objective

- Express simple fractions as a percentage and vice versa.

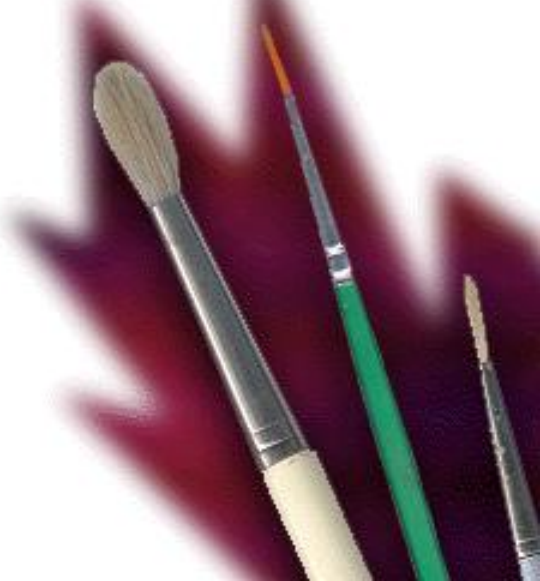
- Finding simple percentages of quantities involving numbers up to three digits.



Plenary

- Show on the board the methods you used to solve the problems.

- Did anyone use a different method?



Plenary

- How would I solve these problems?
- What is 10% of £30?

- What is 5% of 80?
- What is 10% of 80?
- What is 20% of 80?

Plenary

- What is 25% of 44?
- What is 12 $\frac{1}{2}$ % of 44?

- What is 10% of 243?
- What is 20% of 243?

Plenary

- What is 0.3 as a percentage?

- What is 90% as a fraction?
- What is 90% as a decimal?

Review of Key Idea

- You can work out percentages by dividing by 100 to find 1%.

- Did you learn this today?

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