

Aim/context

- To develop the children's understanding of percentages and fractions.
- To practise adding 2 or 3 money values together to find a total price.
- To be able to record a value of money using pounds, pence and £ signs and decimal points.
- To be able to choose the right function to work out the answer to a word problem.
- To be able to carry out 2 or 3 step calculations.

Level 3 - Age group year 5/6

This game will ask the children to reduce the value of a full price item by a percentage or a fraction. The fractions used are $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ and the percentages used are 50%, 30% and 25%. They will be asked to buy 2 or 3 items from the shop. They will then be asked to calculate the total amount that they have saved.

Target

Mathematics

I can solve problems involving the calculation of percentages to find the costs of savings I can make in the online corner shop

Financial Education

I can recognise when people are trying to influence my choices about money (using a range of coupons and special offers)
I can make comparisons between prices when deciding what is best 'value for money'

Scottish Curriculum Ref: MNU 2-07a

Teacher tips

Previous knowledge needed:

- To have experience of using percentages and fractions and to know how to find a percentage of a monetary value.
- To have experience of recording money values using £ and a decimal point.
- To be able to use a calculator to add, multiply, divide and subtract values.

Key questions/prompts

Model using a calculator to work out a fraction/percentage of an amount.

Using calculators (share 1 between 2)

- Can you find 50% of £1.50?
- Can you find $\frac{1}{4}$ £2.60?
- Can you find 30% of the £3?

Model using a calculator to work through this multi step problem.

- Can you find $\frac{1}{2}$ off £2.40 and 30% off £3? How much have you spent? How much have you saved?

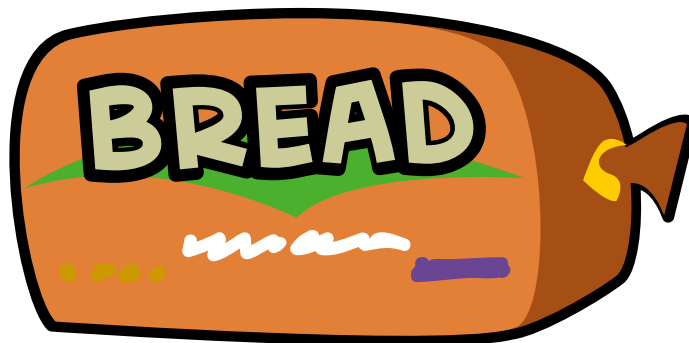
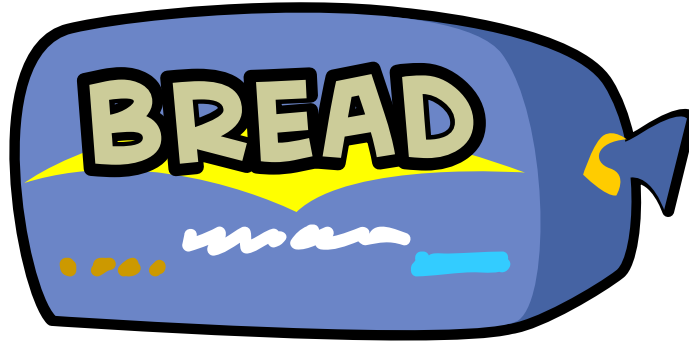
Repeat with different figures asking for volunteers to complete each step of the problem.

- Model using £ sign and decimal places correctly.

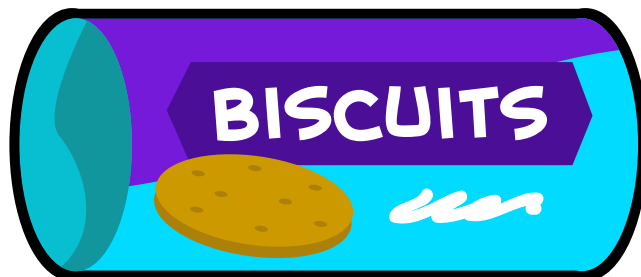
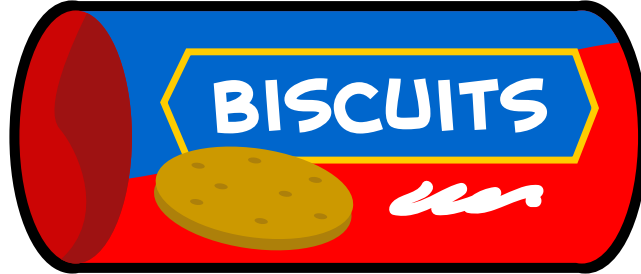
Group activity ideas

- Using the **Best Prices** sheet, role play shop. Using 3 pictures of coffee put different special offer stickers on each picture. (Special offer stickers show, 50%, 30%, 25% off the price and $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{1}{3}$ off). Ask the children to work out which coffee is the best value. Repeat using 3 different pictures of items (bread, milk, cereal). The children are given money to spend in the shop and must buy at least 2 items that are the best value. The shopkeeper must work out how much their item is with the money off and the customer must count out the right amount of money. Swap roles.
- Play the **Bingo Game**, using the bingo boards and flash cards, the children work in pairs and take turns to flip over a flash card showing an item and a percentage or a fraction. If they have the item on their board then they must work out the discounted price, the other players can check their answers. If they answer correctly then they can have a counter, the first team to cover all 6 squares wins.
- Using **Special Offers 3**, children must work out the discounted price of each item, and write the total spent and total saved.
- Look at supermarket websites online and using a shopping list record how much each supermarket charges for the items on the list. Then add up the bill from each supermarket. Which supermarket gives the best value? Report findings to the class in the plenary.





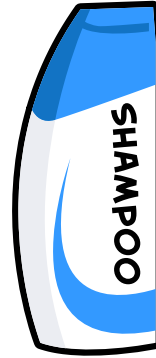


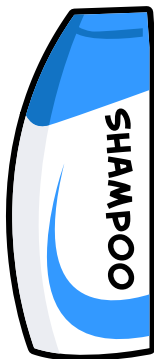
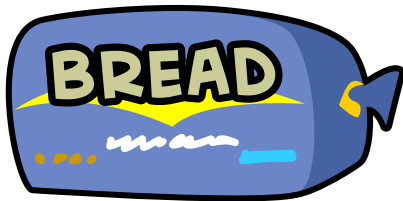


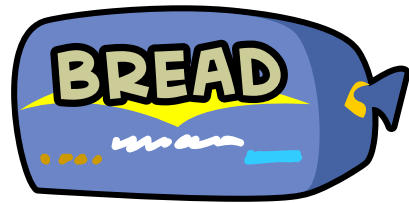














Beans - £1.50



Shampoo - £3.30



Coffee - £2.80



Bread - £1.28



Tea bags - £4.56

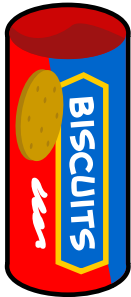




Milk - £1.16



Tuna - £2.60



Biscuits - £3.30







































Comic - £5.64



Cereal - £2.40



Full price item	Total price	Total saved
  <p>Coffee - £4.60 Cereal - £2</p>		
   <p>Biscuits - £1.20 Comic - £4.10 Milk - 60p</p>		
  <p>Cereal - £3.30 Milk - 90p</p>		
  <p>Tuna - £2.80 Shampoo - £5.46</p>		
   <p>Shampoo - £6.30 Beans £1.20 Milk - 96p</p>		
   <p>Beans - £1 Bread - £2.40 Biscuits - £3.99</p>		
   <p>Tea bags - £5 Milk - 90p Comic - £3.26</p>		

Full price item	Total price	Total saved
  <p>Coffee - £4.60 Cereal - £2</p>	£3.80	£2.80
   <p>Biscuits - £1.20 Comic - £4.10 Milk - 60p</p>	£3.29	£2.61
  <p>Cereal - £3.30 Milk - 90p</p>	£2.25	£1.95
  <p>Tuna - £2.80 Shampoo - £5.46</p>	£4.83	£3.43
   <p>Shampoo - £6.30 Beans £1.20 Milk - 96p</p>	£5.52	£2.94
   <p>Beans - £1 Bread - £2.40 Biscuits - £3.99</p>	£5.21	£2.18
   <p>Tea bags - £5 Milk - 90p Comic - £3.26</p>	£5.98	£3.18