

Money

Mental Maths

Choose the best option for you then solve it in your head.

Option 1: Start at 0 and count up in 10s until you reach 100. Do you notice a pattern?

Option 2: Start at 47 and count up in 5s until you reach 102. Do you notice a pattern?

Option 3: Choose any three-digit number. Add 100 to it. Subtract 100 from it. Repeat with two more three-digit numbers.

Choose the best set of questions below for you to answer, or you could try all of them! Use the RUCSAC method to solve the problems:



Read

Read the question carefully.



Underline

Underline or write down the keywords and numbers.



Choose

Choose the correct operation (+ - x or ÷) and a mental or written method of calculation (you could use diagrams).



Solve

Solve it! Make sure you follow the steps carefully.



Answer

Check that you have answered the question properly. What did you need to find out in the first place?

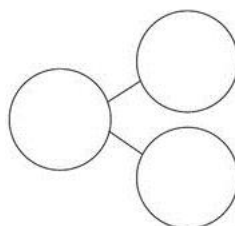
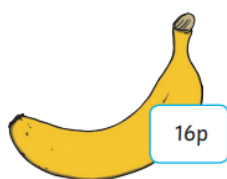


Check

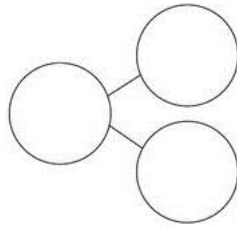
Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?)

1. Use a part-whole model like we did yesterday to help you to solve each problem.

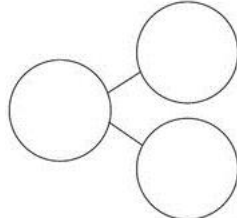
- a. Sabina's mother gives her 20p to buy her brother a banana. She buys a banana for 16p. How much change will she receive?



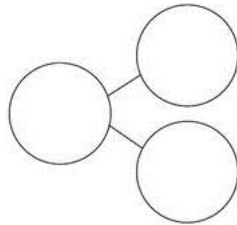
- b. Halim's mother gives him 50p to buy his sister a birthday present. He buys a pencil for 46p. How much change will he receive?



- c. Sebastian has 78p and buys his sister a drink. He has 29p left. How much did the drink cost?

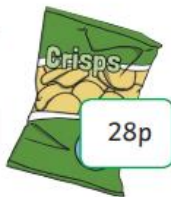


- d. Selma buys a red nose for Comic Relief. She gets 25p change from 50p. How much does the red nose cost?



You could use a part-whole model to help you with these questions:

2. Oscar has two pounds to spend. He bought two packets of crisps. He also wants to buy a drink. Has he got enough money left?



3. Monika has £3.35. She sponsors her friend 40p per mile for a sponsored walk. Her friend walks 2 miles. How much will she have left after giving her friend the sponsor money?
4. Hardeep buys his mother a birthday card for 95p. He has 32p left. How much did he have before buying the present?



5. At a market stall by the seaside, Jenny can buy the following items:

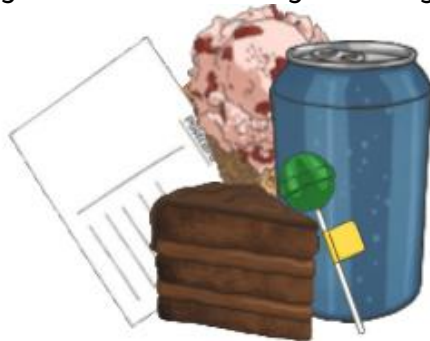
postcard 25p

lolly 35p

ice cream 75p

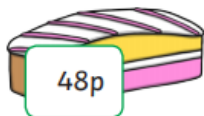
cake £1.20

cola 55p



Jenny has £2. She buys three items and has less than £1 in change. Which three items could she have bought?

6. Ruby has the following coins in her purse: £1, 20p, 10p, 5p. She buys a drink and a cake.



- Which coins will she use to pay?
- What will her change be?

Challenges

7. Calculate the amount in each choice and then select the largest amount. Show how you worked out each answer and don't forget to include the unit (£ or p in your answer).

Tip: Convert the amounts into pennies first (remember that £1 = 100p). *Example:*

Find three quarters of £1

$$100p \div 4 = 25p$$

$$25p \times 3 = 75p$$

Would you rather have...?	$\frac{1}{4}$ of £2	$\frac{1}{5}$ of £3	$\frac{1}{10}$ of £5
Would you rather have ...?	Eight tenths of one pound	Two quarters of one pound	Two eighths of two pounds
Would you rather have ...?	$\frac{1}{2}$ of £5	$\frac{2}{3}$ of £6	$\frac{5}{6}$ of £6
Would you rather have ...?	Two fifths of four pounds	Three tenths of three pounds	Seven eighths of four pounds

Now write some of you own Would you rather...? questions using money to the nearest pound for someone in your home to solve.