Money

Mental Maths

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

Option 1: Use number bonds to find the missing numbers:

$$20 - \_\_\_ = 13 \qquad \_\_\_ - 4 = 0 \qquad \_\_\_ - 4 = 10$$

Option 2: Count down in 10s from 117. Which digit changes every time?

Option 3: One third of 18 is 6. How would this help you to find one third of 180? How would this help you to find one third of £1.80?

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:

|		
R	**Read**	Read the question carefully.
U	**Underline**	Underline or write down the keywords and numbers.
C	**Choose**	Choose the correct operation (+ - x or ÷) and a mental or written method of calculation (you could use diagrams).
S	**Solve**	Solve it! Make sure you follow the steps carefully.
A	**Answer**	Check that you have answered the question properly. What did you need to find out in the first place?
C	**Check**	Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?)

1. Janet buys a rubber for 14p and a pencil for 12p. How much does she spend?

2. Tomas is given twenty pence by a friend. He already had thirteen pence. How much does he have now?

3. Ben has 75p to spend. He would like to buy a lolly for 25p and a bouncy ball for 45p. Does he have enough money?

4. Nura has four coins. She has twelve pence. What coins must she have?

5. Alex is given 50p by his mum and he finds one more coin on his desk. How much money might he have now (there is more than one option)?

Use a part-whole model to help you with these questions. Remember that £1.00 = 100p.
Example:

Two glasses of milk

40p

£1.00

Amount paid

Change

60p
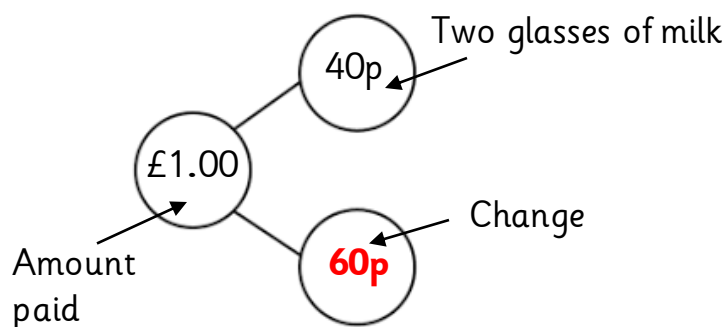
100p – 40p = 60p

(you know that 10 – 4 = 6)

Riverside Café Menu

Cola £1.00	Coffee 15p	Milk 20p	Orange Juice 50p	Milkshake 80p
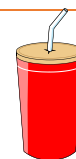
6. John bought a cup of coffee. How much change from 50p did he get?

7. How much would it cost Sam to buy a can of cola and some orange juice? If Sam pays with £2.00 how much change will he have?

8. Jess orders a cup of milk while Tam and Paul order a coffee each. Jess pays for them all with £1.00. How much change should she receive?

9. Lisa orders a cup of orange juice and a milkshake. How much would her order cost? If Lisa pays with £2.00 how much change would she get?
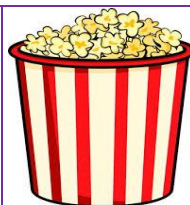
Challenges

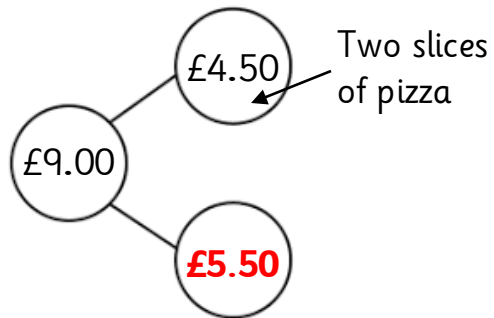10.   Choose three of the items below.

£5.59	£10.20	50p	£3.25	£5.95	£2.29

				75p	
£1.15	£2.45	£8.62	£2.60		£3.85

a. Calculate their total using partitioning like we did on Tuesday.

b. Work out the change you would receive if you paid with £9.00. Use partitioning again and a part-whole model to help you. *Example:*

£9.00 — £4.50 (Two slices of pizza) — **£5.50**

£9.00 - £4.50 = 900p − 450p

900 − 400 = 500 (you know that 9 − 4 = 5)

500 − 50 = 450 (you can break the 50 down into 10s and subtract one 10 at a time to make it easier)

c. Repeat this three times — choose different items each time.