

2019 national curriculum tests

Key stage 1

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks

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Amy



Ajay

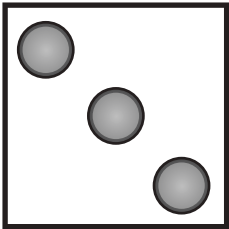
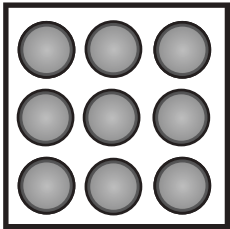
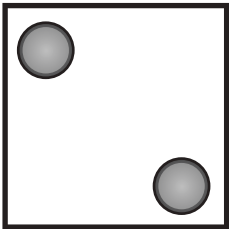
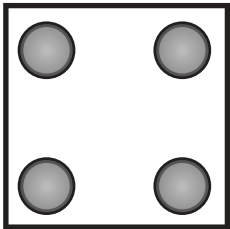
Ben

Sam

Sita

Kemi

Practice question



1

Monday

Friday

Wednesday

Saturday



1 mark

2

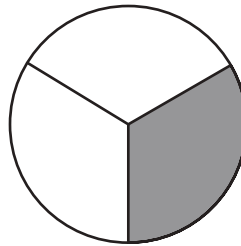
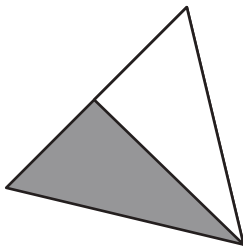
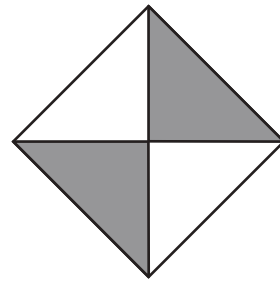
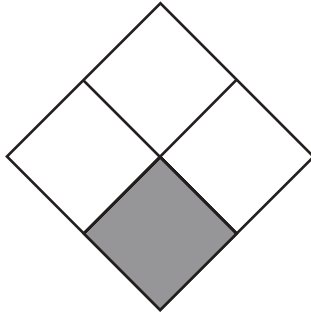
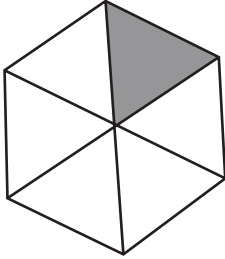
52

57



1 mark

3




1 mark

4

$$12 = \square \times 6$$


1 mark

5

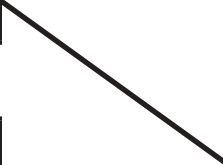
96


1 mark

6

Match each shape to the correct description.

One is done for you.

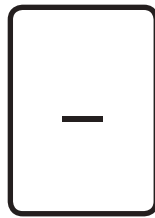
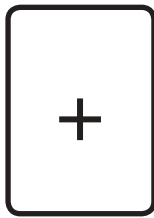
shape		description
triangle		has 8 vertices
square		has 3 sides
octagon		has 4 right angles
circle		has no vertices



1 mark

7

Here are two cards.



Choose a card to make each calculation correct.

One is done for you.

$$4 \quad \boxed{+} \quad 1 = 5$$

$$23 \quad \boxed{} \quad 1 = 22$$

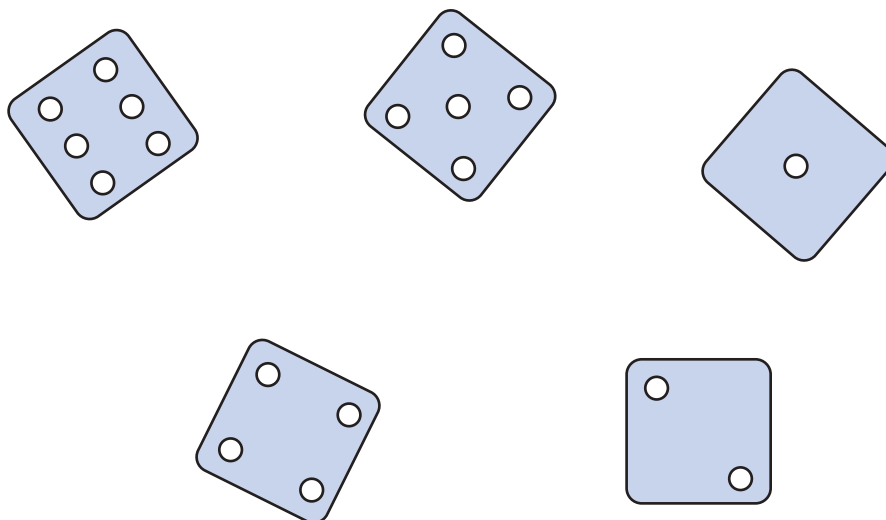
$$40 \quad \boxed{} \quad 1 = 39$$

$$19 \quad \boxed{} \quad 1 = 20$$

1 mark

8

Circle the **three** dice that add up to **13**

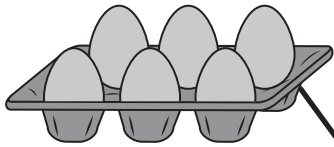


1 mark

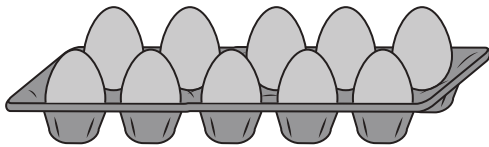
9

Match each egg box to the correct multiplication.

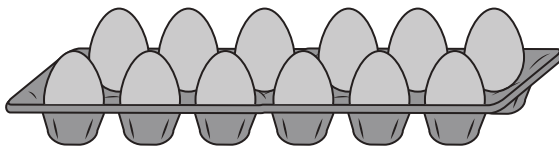
One is done for you.



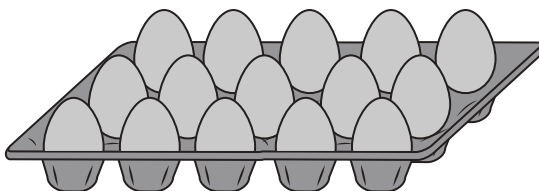
$$6 \times 2$$



$$5 \times 3$$



$$3 \times 2$$



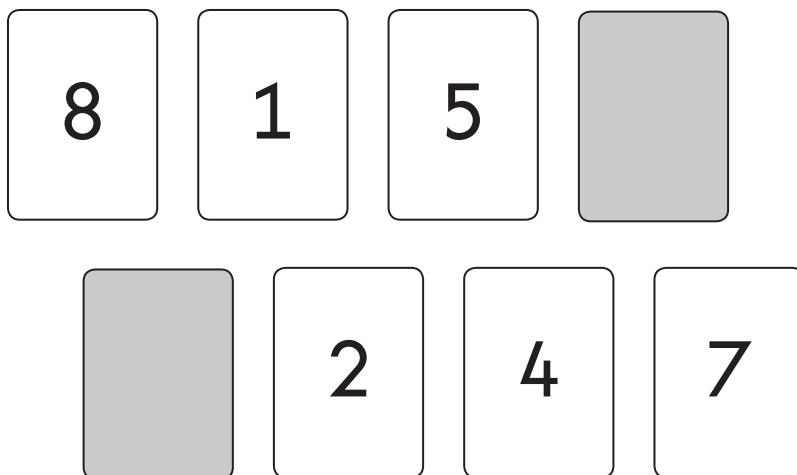
$$5 \times 2$$



1 mark

10 Sam has cards that are numbered 1 to 8

Sam turns over two of the cards.



Which two cards has Sam turned over?

Write the numbers on the cards below.


1 mark

- 11** Complete the number sentences.

One is done for you.

$$\frac{1}{2} \text{ of } \boxed{8} = 4$$

$$\frac{1}{2} \text{ of } \boxed{} = 3$$


1 mark

- 12** Write the missing numbers in the sequence.

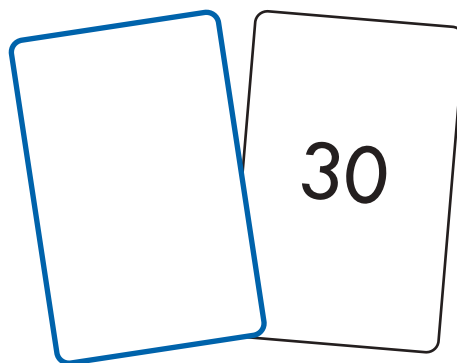
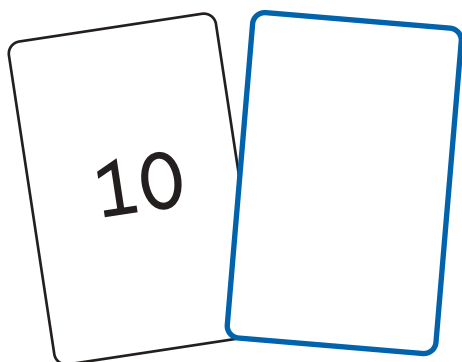
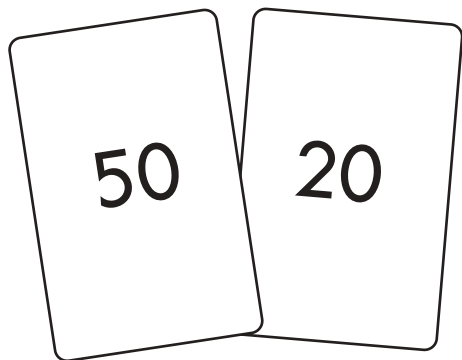
16	14	12			
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1 mark

13 Each pair of cards has a **total of 70**

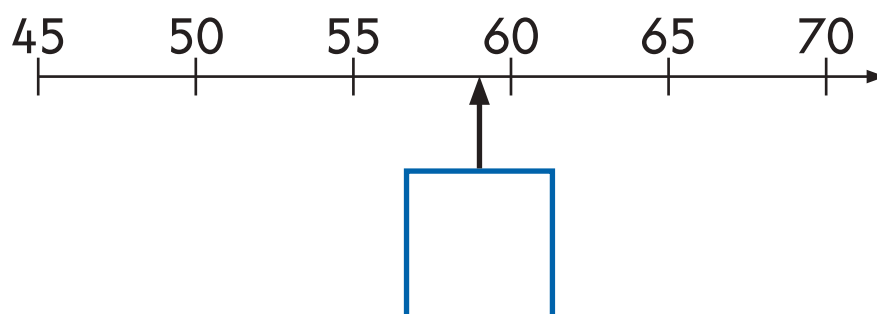
Write numbers to complete the pairs.

One is done for you.



1 mark

14 Write the correct number in the box.



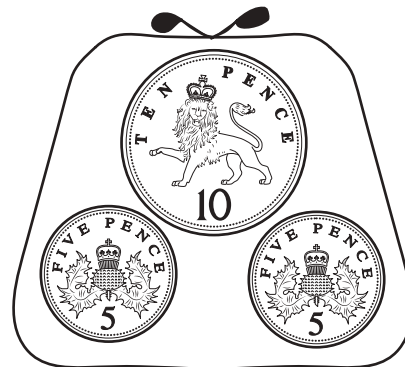
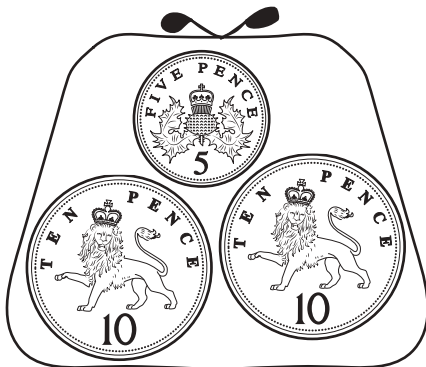
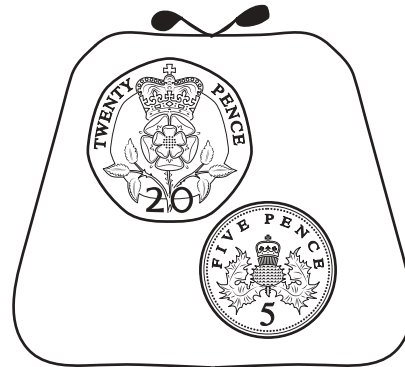
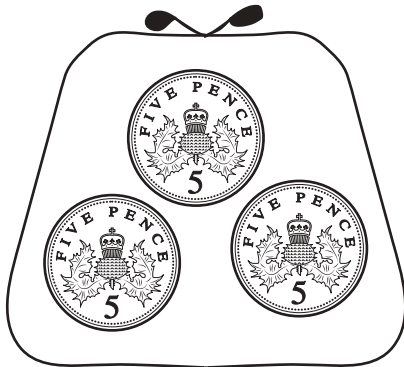
1 mark

15

Amy has 50p.

She buys a pencil for **30p**.

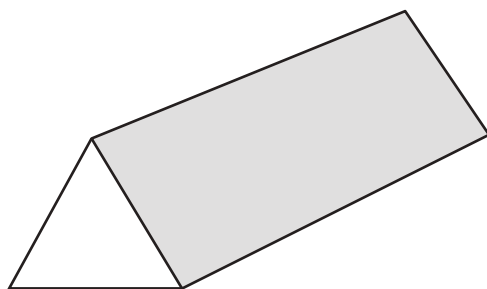
Tick the purse that shows how much money Amy has **left**.



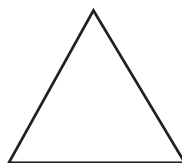
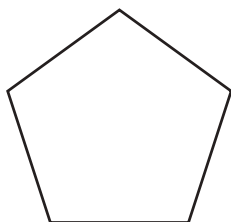
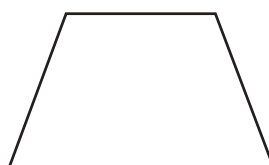
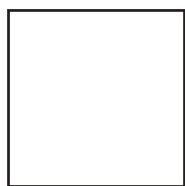
1 mark

16

Here is a prism.



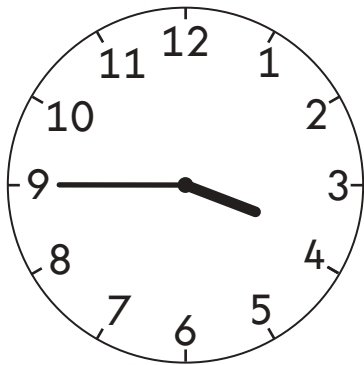
Tick **all** the shapes that are faces on this prism.



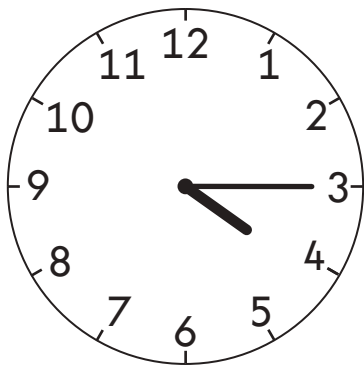
1 mark

17

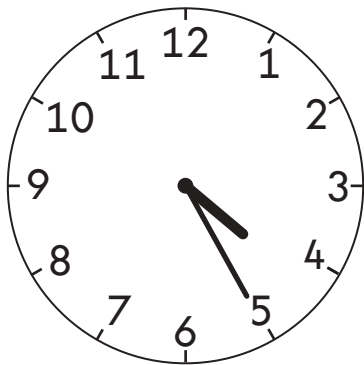
Match each clock to the time it shows.



twenty-five past four



quarter to four



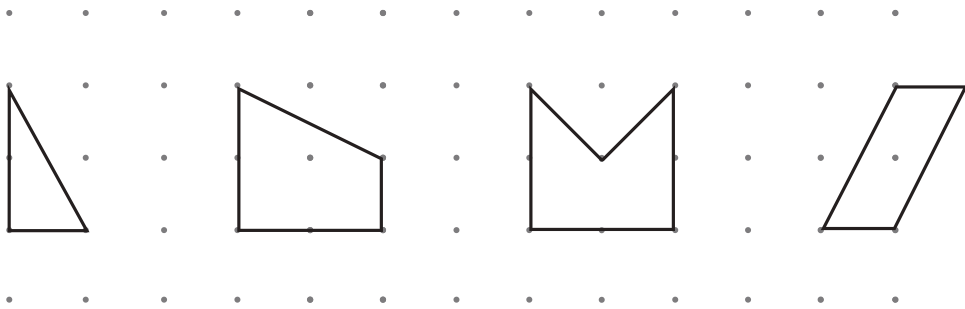
quarter past four



1 mark

18

Tick the shape that has a line of symmetry.



1 mark

19

Write the next number sentence in the pattern.

$$1 + 2 + 3 = 6$$

$$2 + 3 + 4 = 9$$

$$3 + 4 + 5 = 12$$

$$4 + 5 + 6 = 15$$

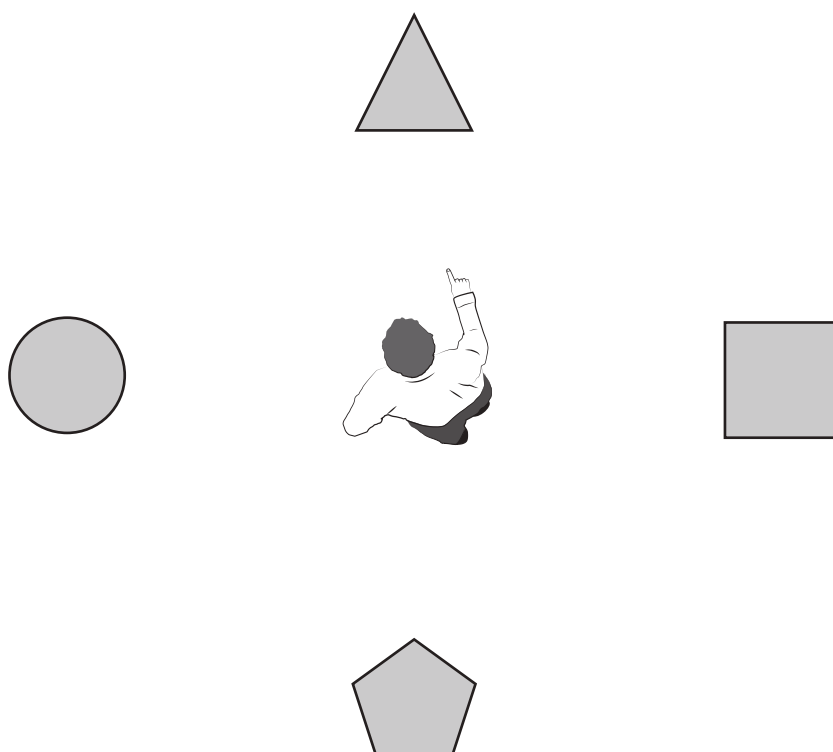
$$\square + \square + \square = \square$$



1 mark

20

Sam is pointing at the triangle.



He turns a **half turn**.

Tick the shape Sam is pointing at after the half turn.



1 mark

21

Sam has four number cards.

10

20

30

40

Use **three** of his cards to make these correct.

$$\boxed{27} + \boxed{} = \boxed{67}$$

$$\boxed{54} - \boxed{} = \boxed{34}$$

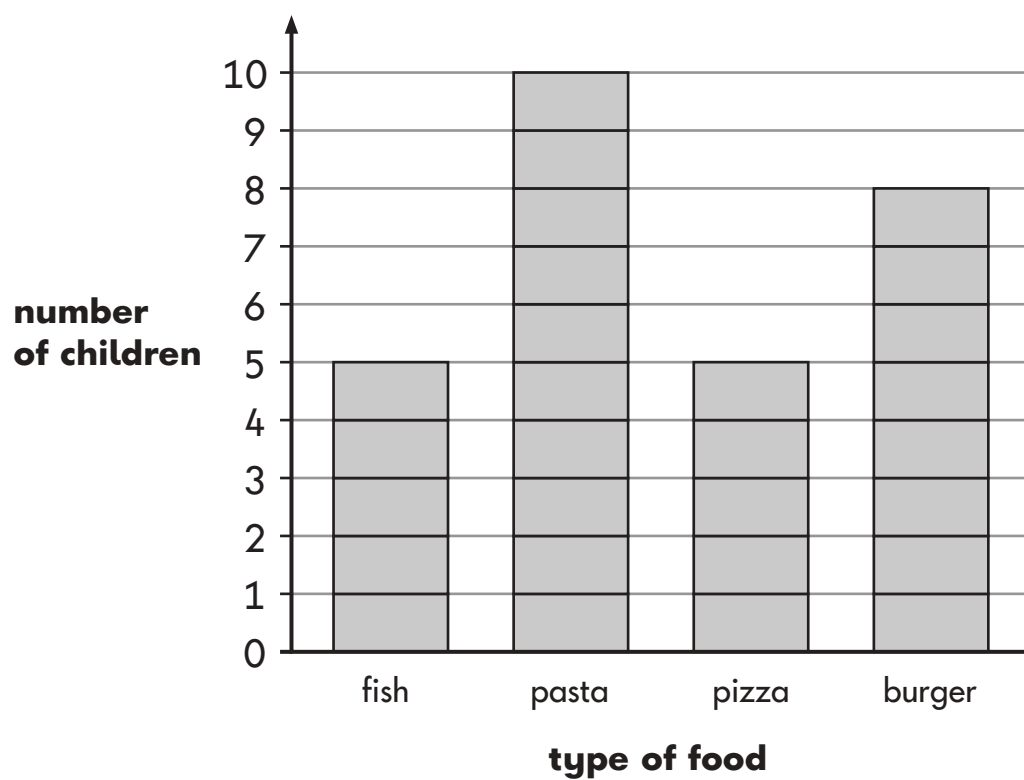
$$\boxed{} + \boxed{88} = \boxed{98}$$



2 marks

22

This chart shows what class 2 ate for lunch today.



Fewer children ate pizza than burger.

How many fewer?

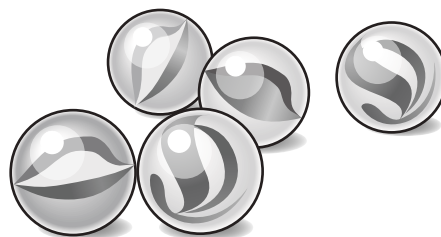
children



1 mark

23

Ben has **five** marbles.



Kemi has **seven times** that number.

How many marbles does Kemi have?

marbles



1 mark

24

Sam plays a maths game.

Each  is equal to **2** points.

$$\text{leaf} + \text{acorn} + \text{acorn} = 10 \text{ points}$$

How many points is **one**  equal to?

points



1 mark

25

Write five coins that have a total of 37p.

p	p	p	p	p

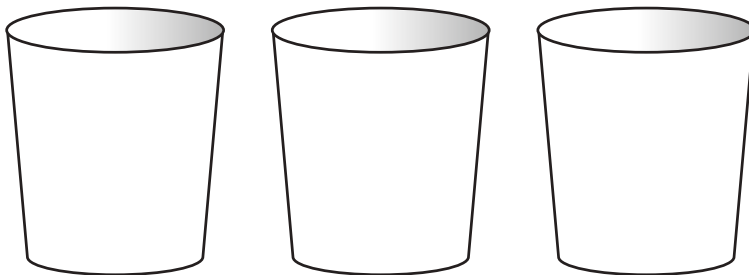


1 mark

26

Ajay has **30** pencils.

He shares them equally between **3** pots.



Complete the number sentence to show how Ajay shares the pencils.

$$\square \div \square = \square$$

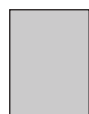


1 mark

27

Some children make a chart of how many books they read in a week.

Key:



stands for **1** book

Ben	   
Kemi	     
Ajay	       
Sita	  

Which children read **fewer than 5** books?

Circle them.

Ben

Kemi

Ajay

Sita



1 mark

28

Put a **digit** into each empty box to make the calculation correct.

$$\begin{array}{|c|c|} \hline 1 & \\ \hline \end{array} + \begin{array}{|c|c|} \hline & 3 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 2 & 9 \\ \hline \end{array}$$



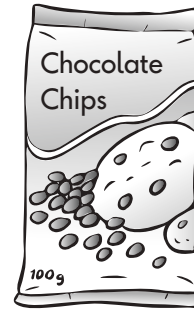
1 mark

29

There are **100g** of chocolate chips in the bag.

Sita uses **25g**.

Ben uses **35g**.



How many grams of chocolate chips are **left** in the bag?

Show
your
working

g

2 marks

30

A shop has 12 bags of crisps.

It sells $\frac{1}{4}$ of the bags.

How many bags of crisps
did the shop **sell**?



bags



1 mark

31

Ben has **63** beads.

He gives **37** beads away.

How many beads does Ben have **left**?

beads



1 mark

32 Ben has **90p**.

He buys **2** tickets.

Each ticket costs **35p**.

How much money does Ben have **left**?



Show
your
working

p

2 marks

End of test

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Standards
& Testing
Agency

2019 key stage 1 mathematics

Paper 2: reasoning

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