

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

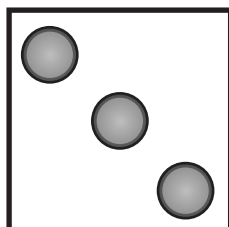
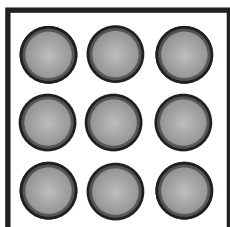
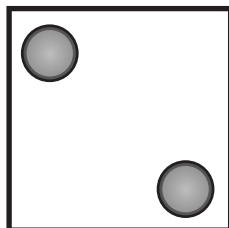
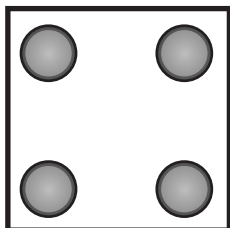
Ben

Sam

Sita

Kemi

Practice question



1

Monday

Friday

Wednesday

Saturday



1 mark

2

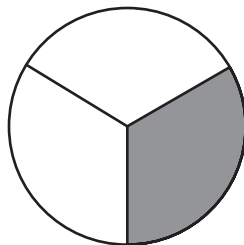
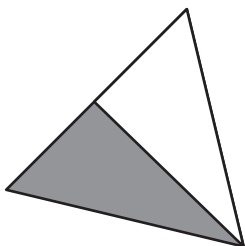
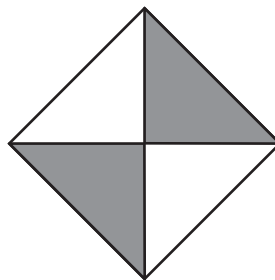
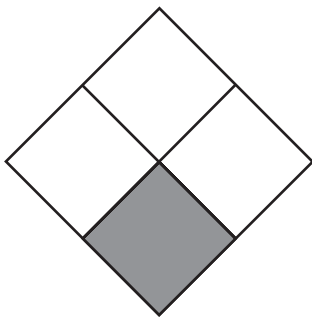
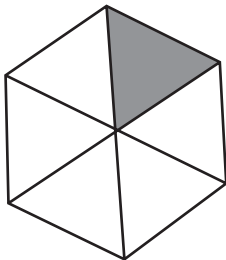
52

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.

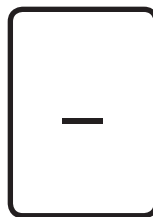
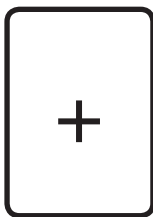
shape	description
triangle	has 8 vertices
square	has 3 sides
octagon	has 4 right angles
circle	has no vertices



1 mark

7

Here are two cards.



Choose a card to make each calculation correct.

One is done for you.

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

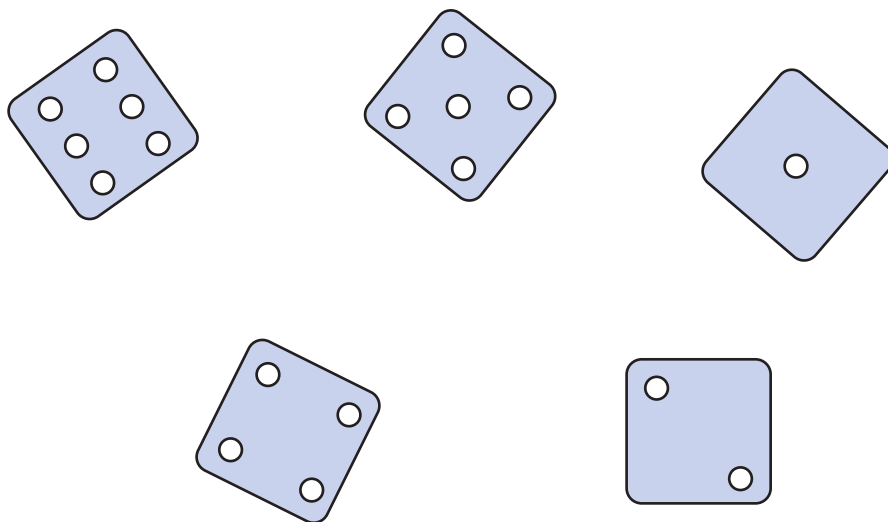
$$23 \quad \boxed{} \quad 1 = 22$$

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

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

1 mark

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

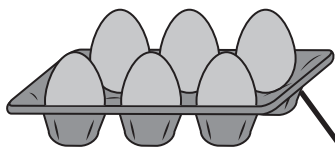


1 mark

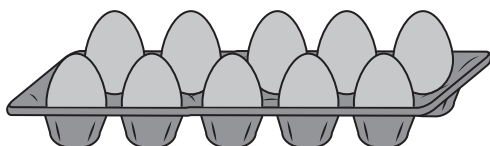
9

Match each egg box to the correct multiplication.

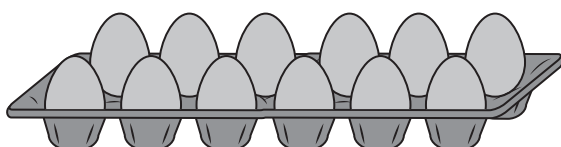
One is done for you.



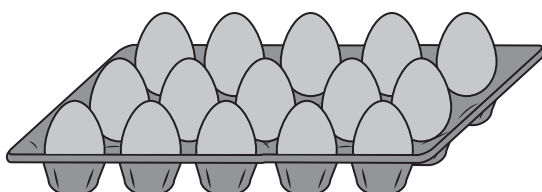
$$6 \times 2$$



$$5 \times 3$$



$$3 \times 2$$



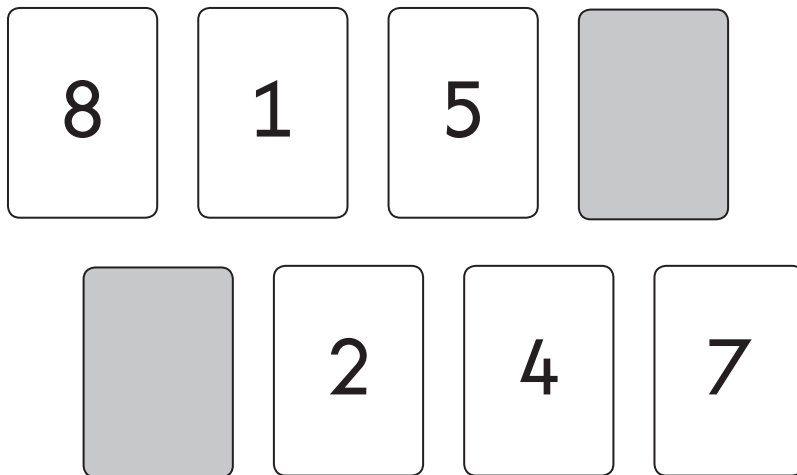
$$5 \times 2$$



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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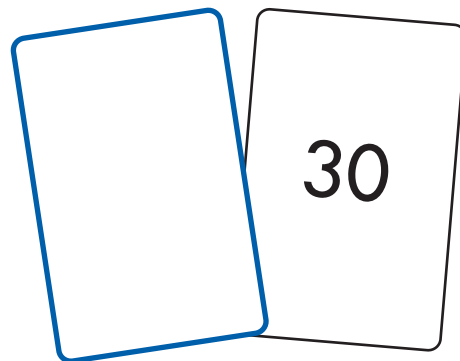
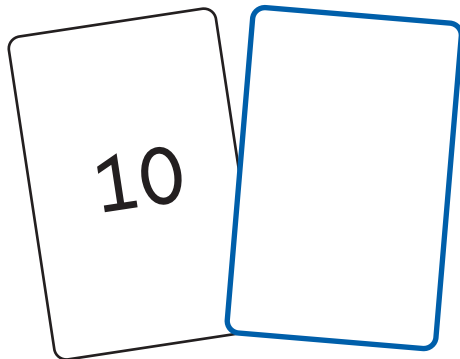
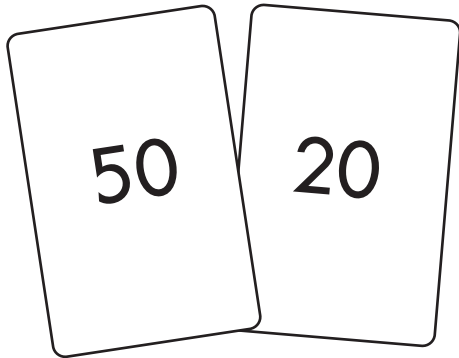


1 mark

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

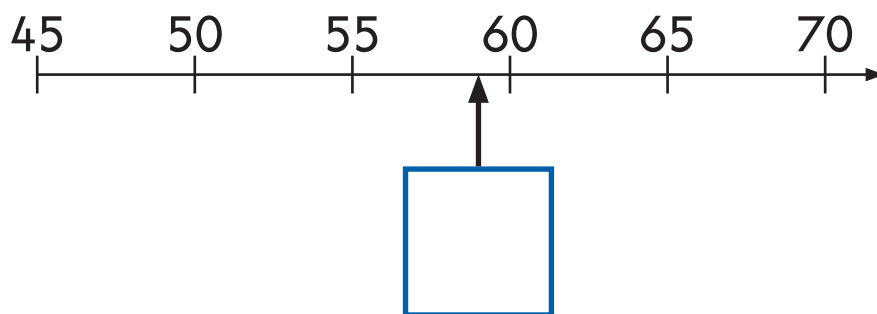
Write numbers to complete the pairs.

One is done for you.




1 mark

14 Write the correct number in the box.



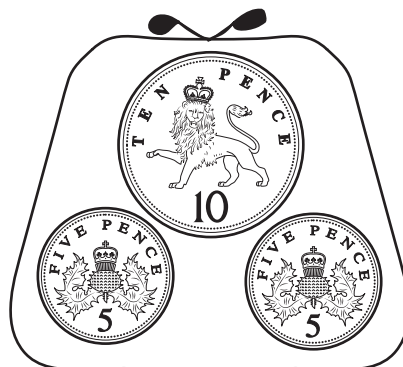
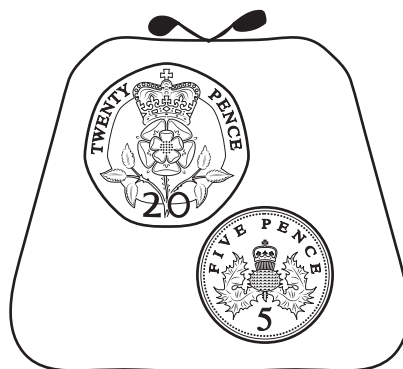
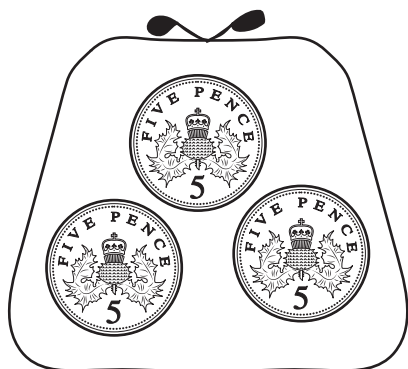
1 mark

15

Amy has 50p.

She buys a pencil for 30p.

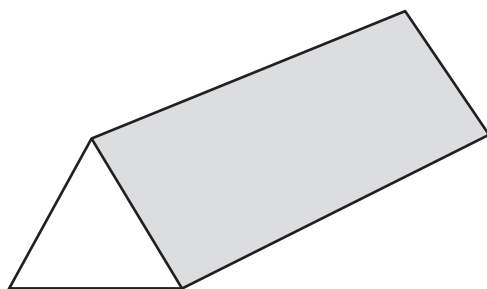
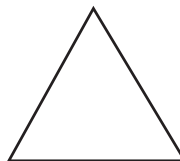
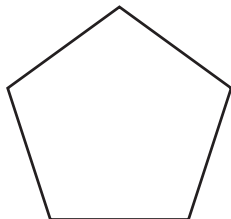
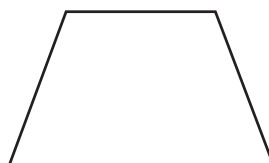
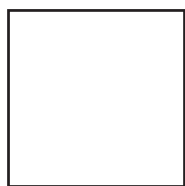
Tick the purse that shows how much money Amy has **left**.



1 mark

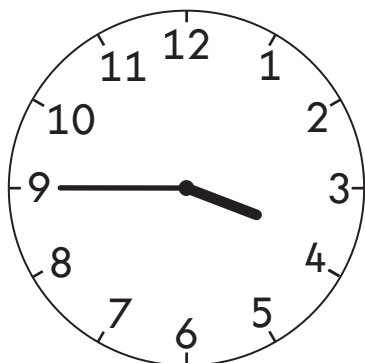
16

Here is a prism.

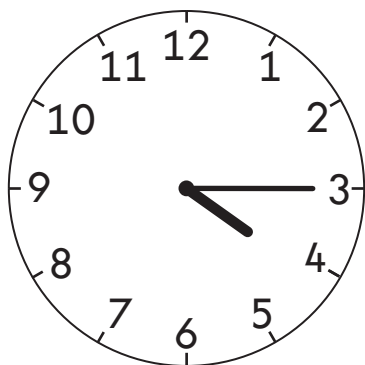
Tick **all** the shapes that are faces on this prism.

1 mark

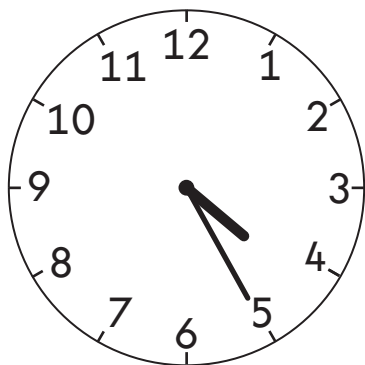
17 Match each clock to the time it shows.



twenty-five past four



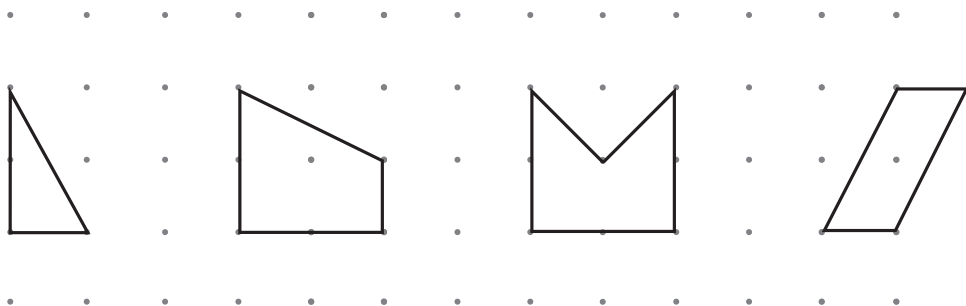
quarter to four



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.

$$1 + 2 + 3 = 6$$

$$2 + 3 + 4 = 9$$

$$3 + 4 + 5 = 12$$

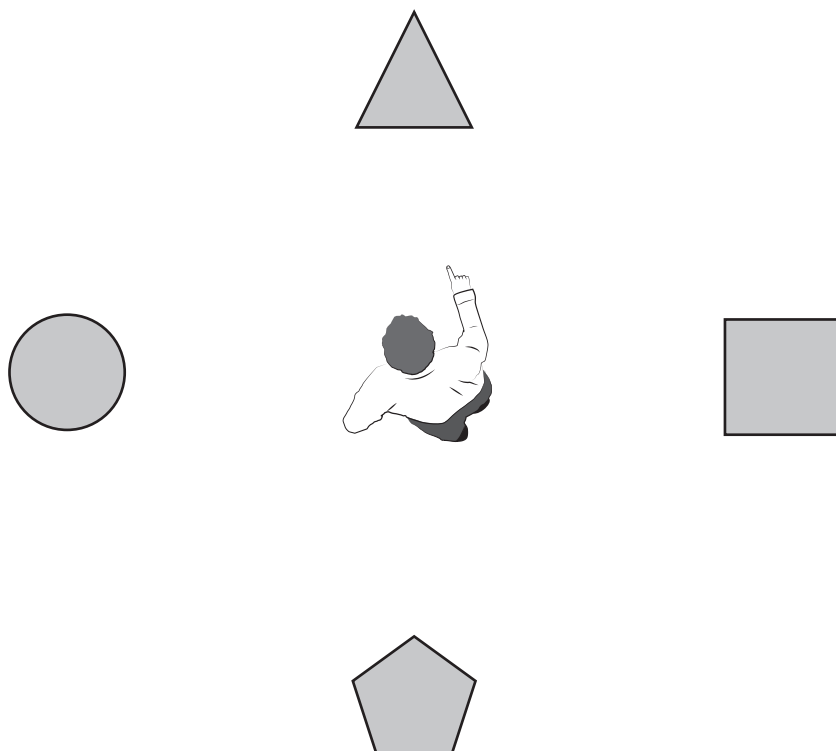
$$4 + 5 + 6 = 15$$

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



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.

$$\boxed{10} \quad \boxed{20} \quad \boxed{30} \quad \boxed{40}$$

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

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

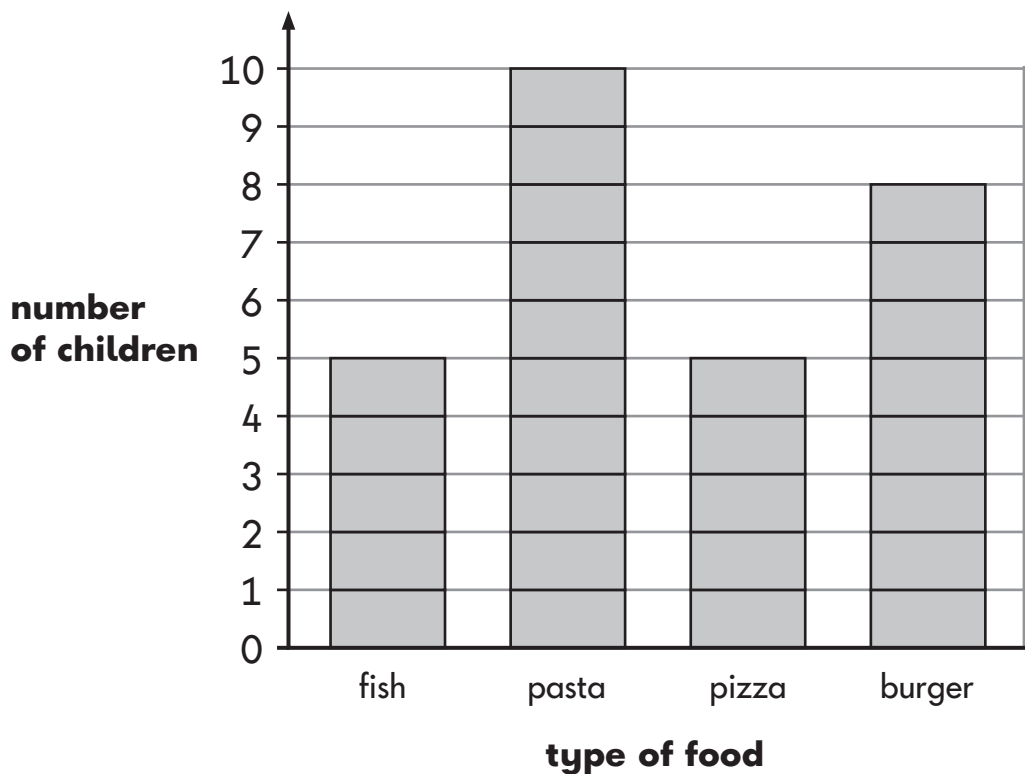
$$\boxed{54} - \boxed{} = \boxed{34}$$

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


2 marks

22

This chart shows what class 2 ate for lunch today.



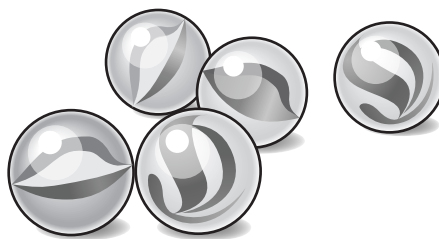
Fewer children ate pizza than burger.

How many fewer?

children



1 mark

23Ben 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

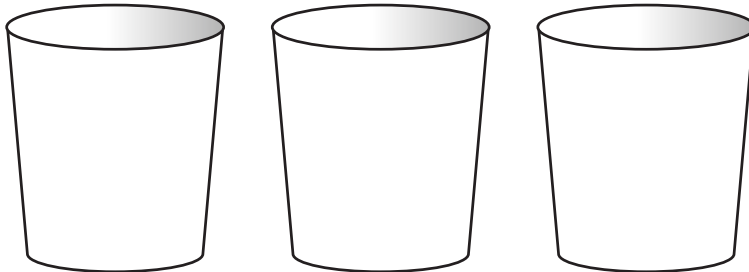
25 Write five coins that have a total of 37p.



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.

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

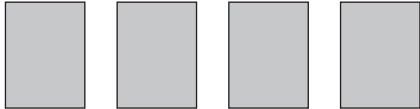
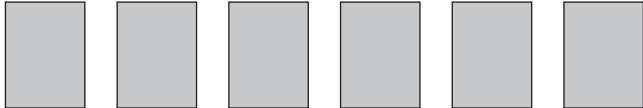
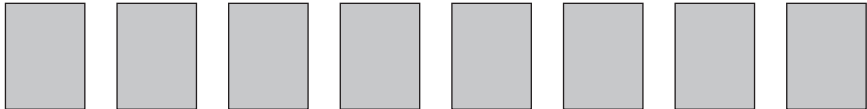
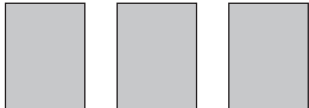


1 mark

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.

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

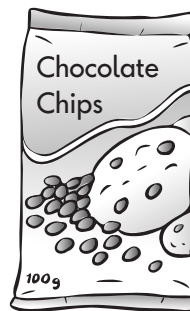


1 mark

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

A large rectangular box for showing working. Inside the box, there is a smaller blue-outlined rectangular box in the bottom right corner, containing the letter '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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