

2019 national curriculum tests

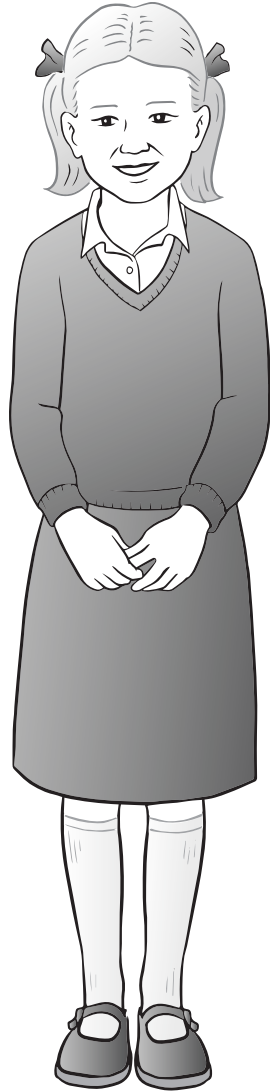
# Key stage 1

## Mathematics

### Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	
-------------	--



**Amy**



**Ajay**

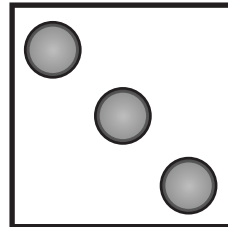
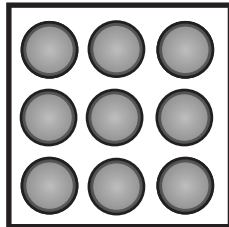
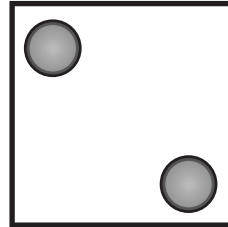
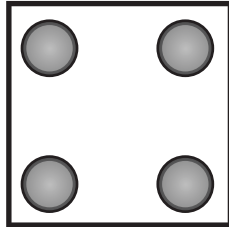
Ben

Sam

Sita

Kemi

## Practice question



1

Monday

Friday

Wednesday

Saturday



1 mark

2

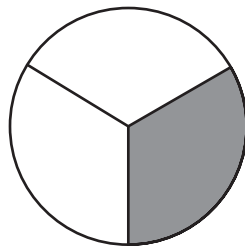
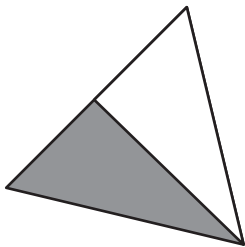
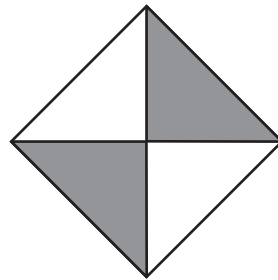
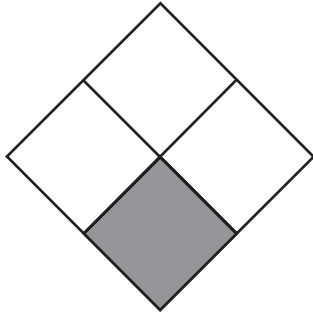
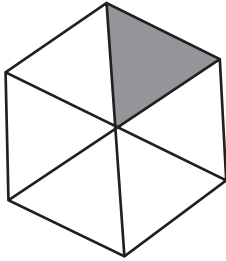
52

57



1 mark

3



  
1 mark

4

$$12 = \square \times 6$$

  
1 mark

5

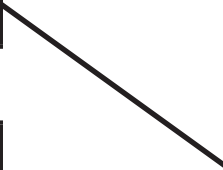
96

  
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

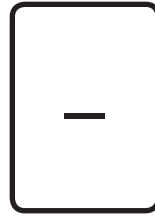
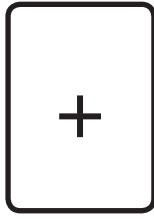


1 mark



**7**

Here are two cards.



Choose a card to make each calculation correct.

One is done for you.

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

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

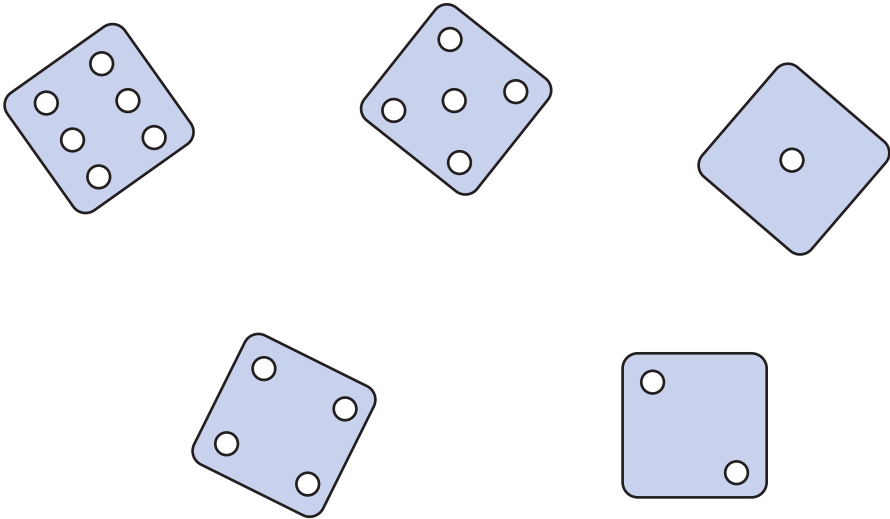
$$40 \quad \boxed{\phantom{+}} \quad 1 = 39$$

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

  
1 mark

8

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

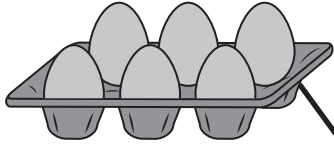


1 mark

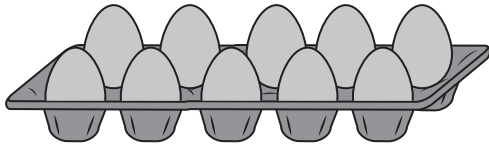
9

Match each egg box to the correct multiplication.

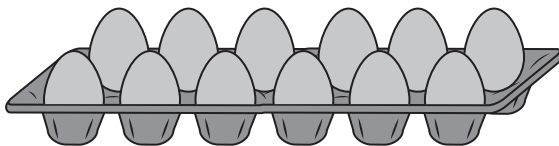
One is done for you.



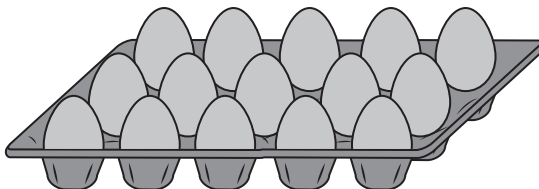
$$6 \times 2$$



$$5 \times 3$$



$$3 \times 2$$



$$5 \times 2$$

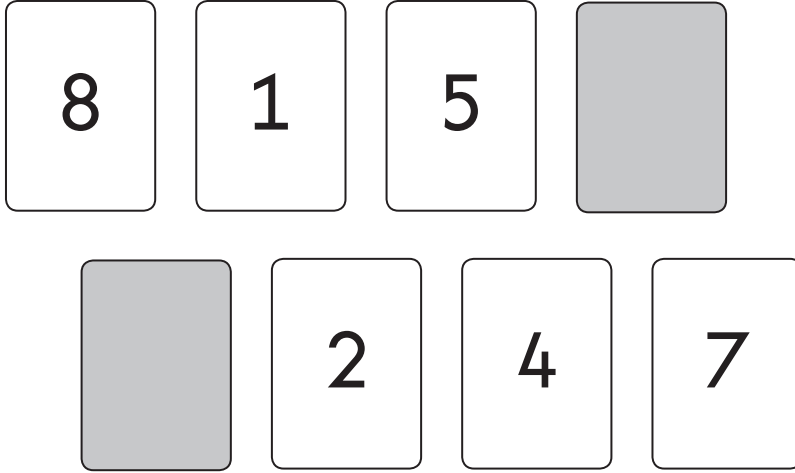


1 mark

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.

Two empty rectangular boxes with blue borders, positioned side-by-side for the student to write the numbers of the two turned-over cards.

1 mark

**11** Complete the number sentences.

One is done for you.

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

$$\frac{1}{2} \text{ of } \boxed{\phantom{00}} = 3$$



1 mark

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

16	14	12	<input type="text"/>	<input type="text"/>	<input type="text"/>
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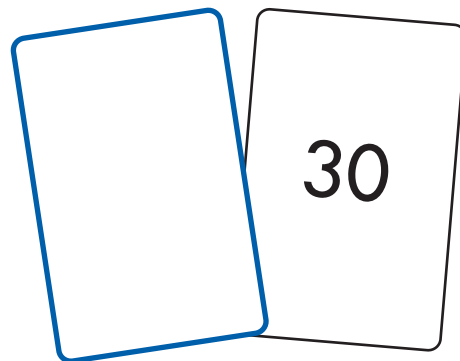
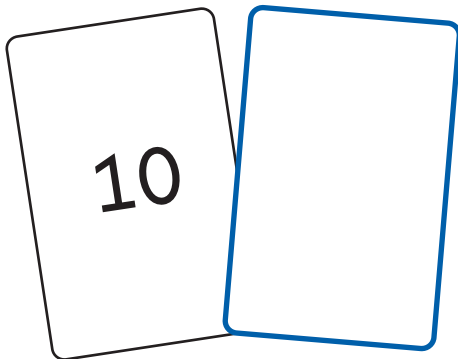
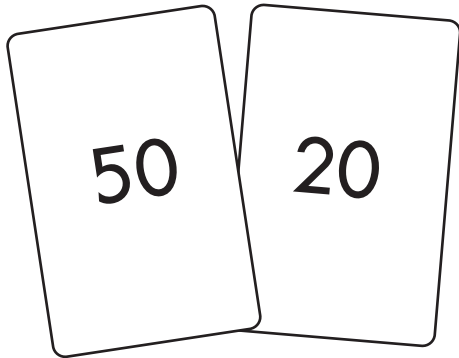
1 mark

13

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

Write numbers to complete the pairs.

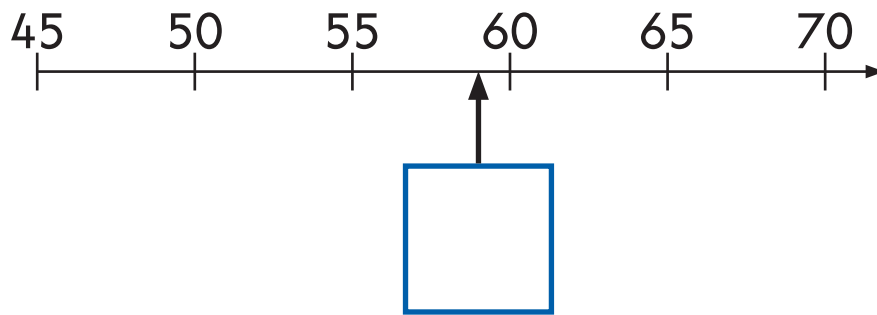
One is done for you.



○  
1 mark

14

Write the correct number in the box.



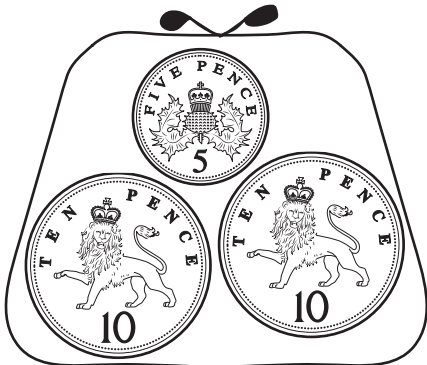
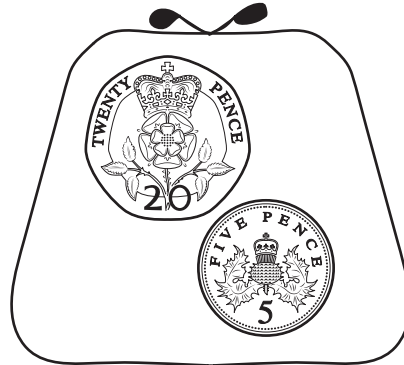
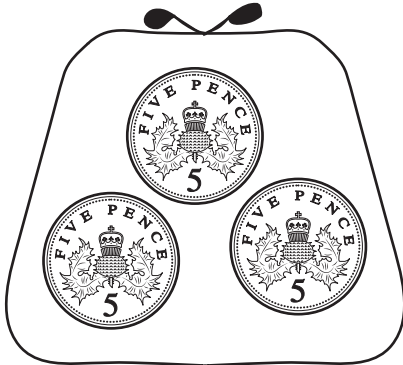
1 mark

15

Amy has 50p.

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

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

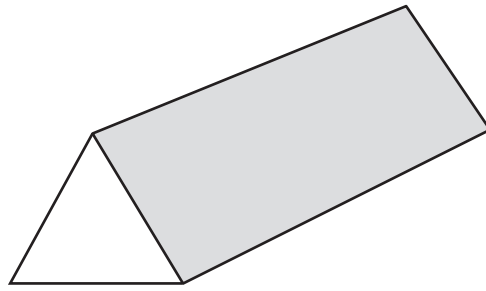


1 mark

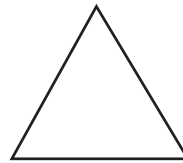
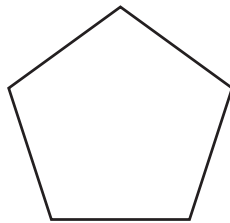
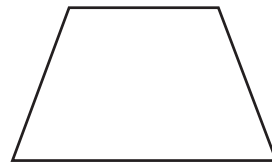
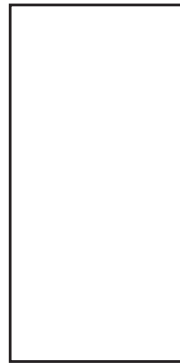
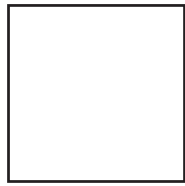


16

Here is a prism.



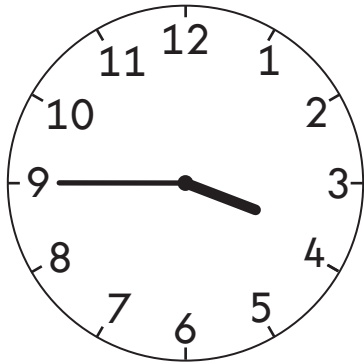
Tick **all** the shapes that are faces on this prism.



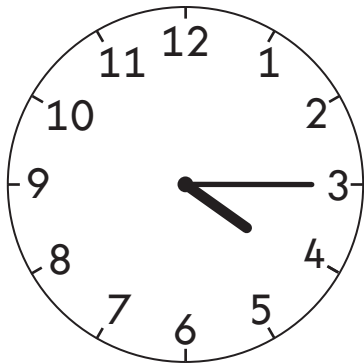
1 mark

17

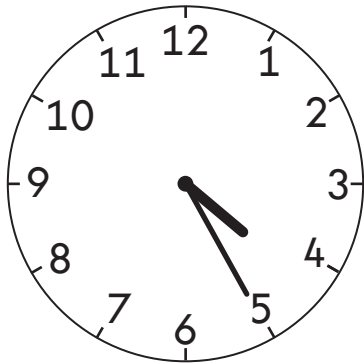
Match each clock to the time it shows.



twenty-five past four



quarter to four

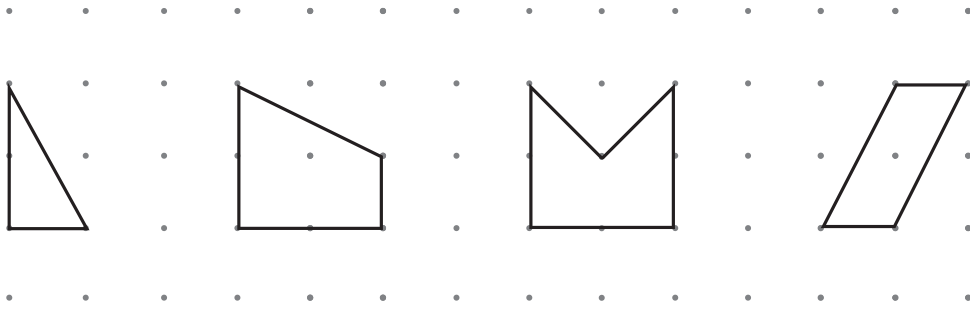


quarter past four

1 mark

**18**

Tick the shape that has a line of symmetry.



1 mark

**19**

Write the next number sentence in the pattern.

$$1 + 2 + 3 = 6$$

$$2 + 3 + 4 = 9$$

$$3 + 4 + 5 = 12$$

$$4 + 5 + 6 = 15$$

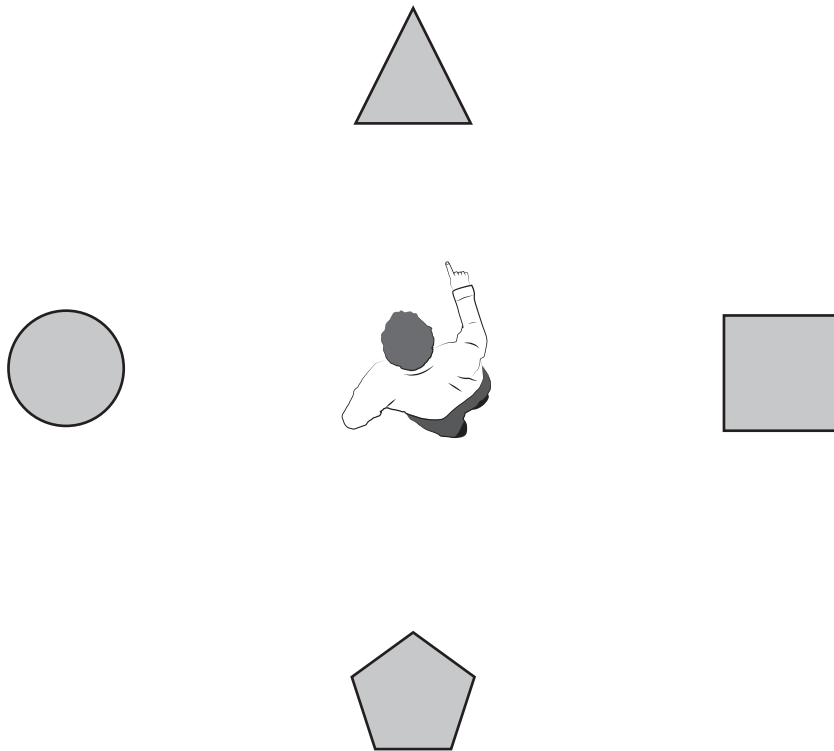
$$\square + \square + \square = \square$$



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.

$$\boxed{27} + \boxed{\phantom{00}} = \boxed{67}$$

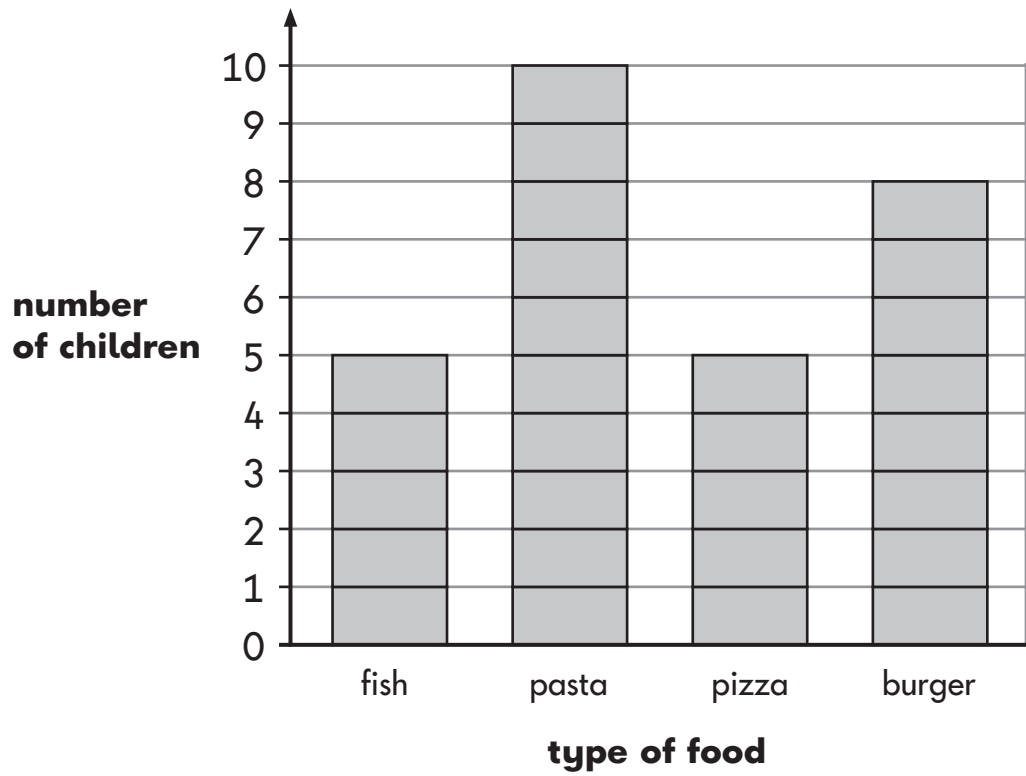
$$\boxed{54} - \boxed{\phantom{00}} = \boxed{34}$$

$$\boxed{\phantom{00}} + \boxed{88} = \boxed{98}$$

  
2 marks

22

This chart shows what class 2 ate for lunch today.



Fewer children ate pizza than burger.

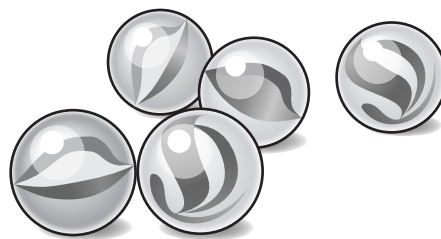
How many fewer?



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.

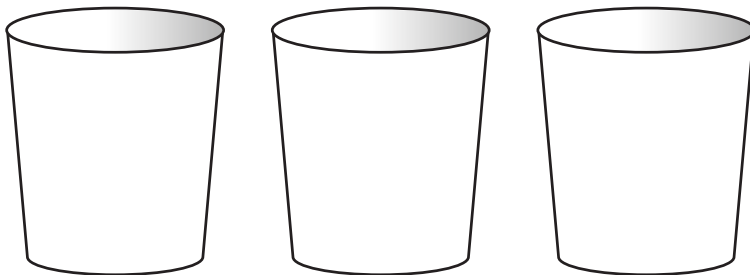


1 mark

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

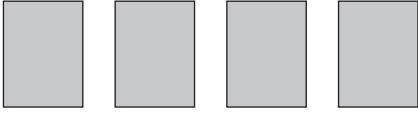
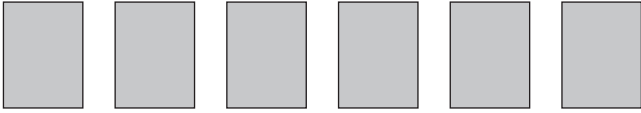
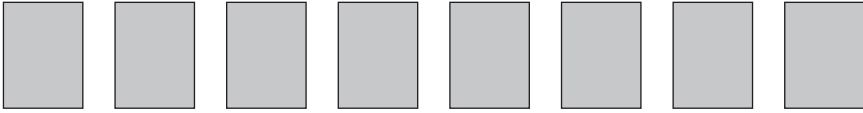
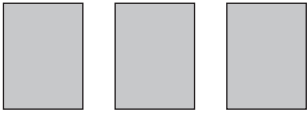
27

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

**Key:**



stands for **1** book

<b>Ben</b>	
<b>Kemi</b>	
<b>Ajay</b>	
<b>Sita</b>	

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.

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



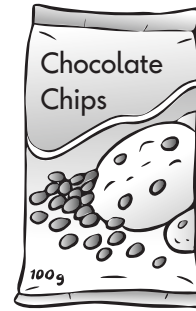
1 mark

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

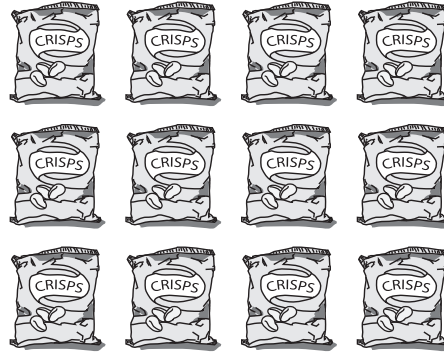
  
2 marks

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. The letter 'p' is written at the bottom right of this smaller box.

2 marks

End of test

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2019 key stage 1 mathematics

Paper 2: reasoning

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