

2017 national curriculum tests

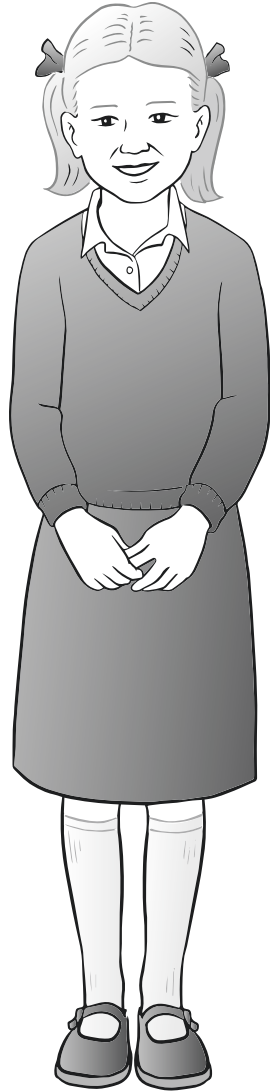
Key stage 1

Mathematics

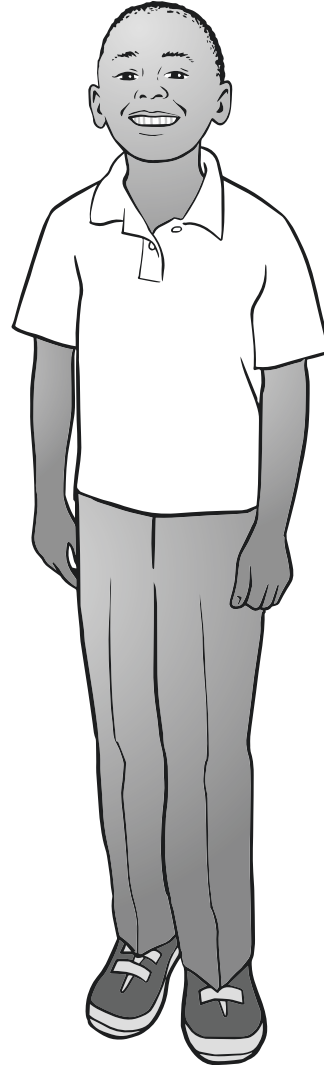
Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	
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Amy



Ajay

Sam

Ben

Sita

Kemi

Practice question

Ajay



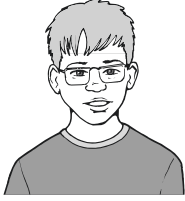
Amy



footballs

1

Ben



Kemi



Sam



Sita



[Empty rectangular box with a blue border and the letter 'p' in the bottom right corner]

○
1 mark

2

110

1001

111

101

200



1 mark

3

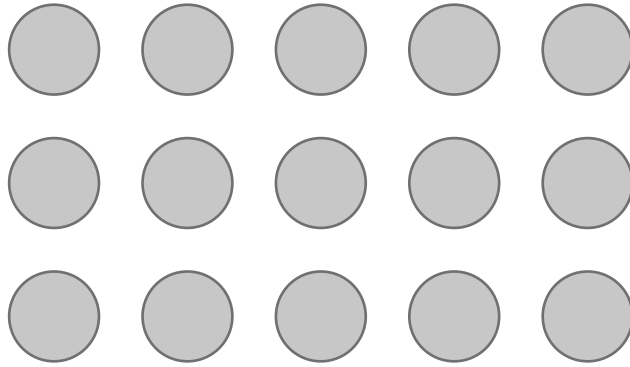
63

bean bags



1 mark

4



$$5 + 3$$

$$5 - 3$$

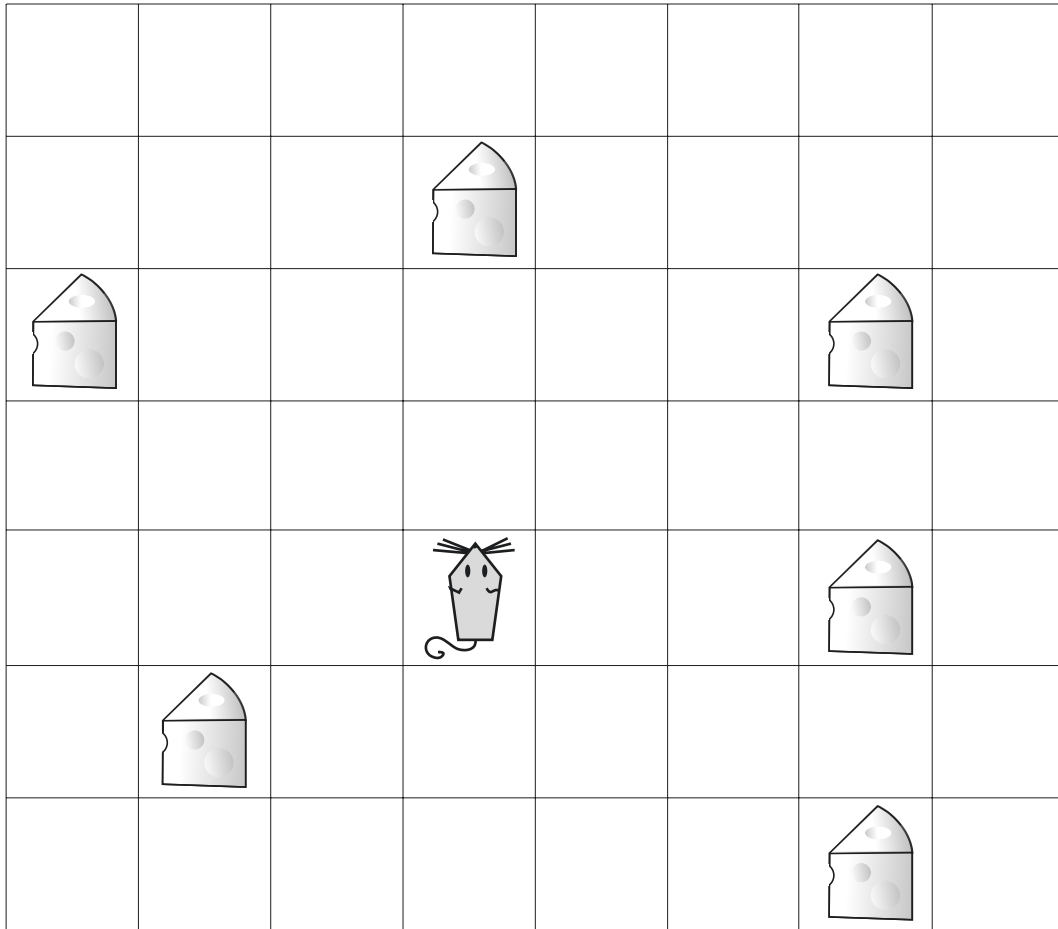
$$5 + 5$$

$$5 \times 3$$



1 mark

5



1 mark

6

Write these numbers in order, starting with the smallest.

73 37 76 36 63

smallest

largest



1 mark

7

Circle the **shortest** time.

70 minutes

10 minutes

45 minutes

1 hour



1 mark

8

A game costs £25

Ben has £19



How much **more** money does Ben need to buy the game?

£



1 mark

9

Circle the **two** numbers that are even.

73

58

64

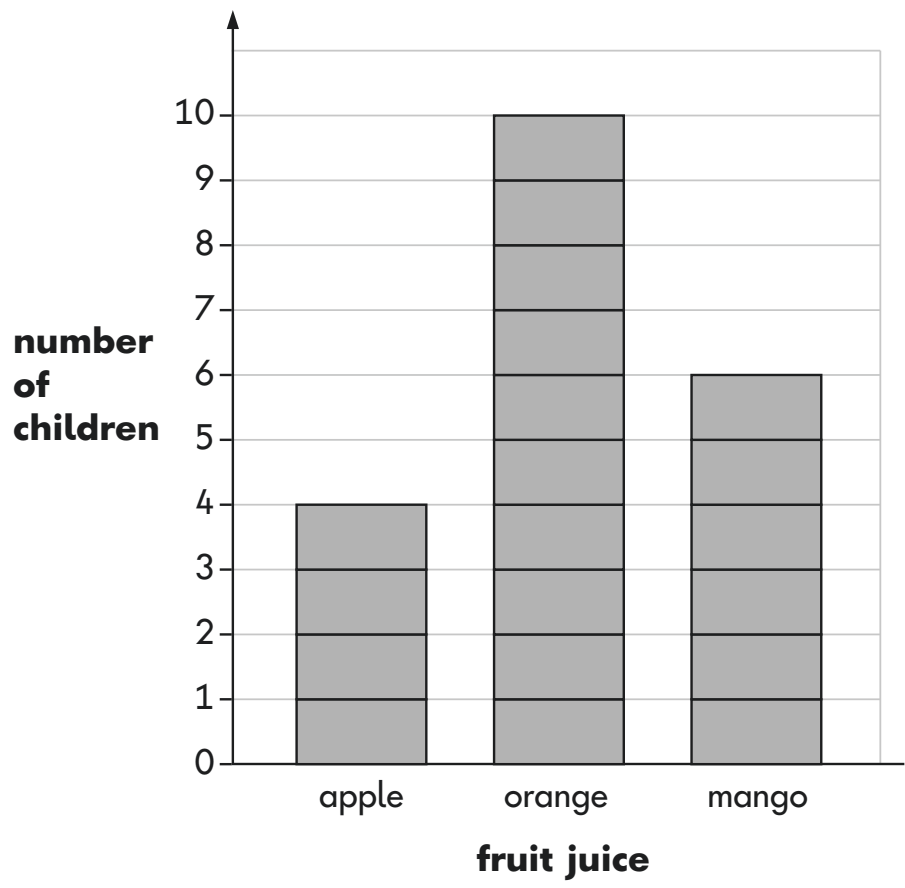
45



1 mark

10 20 children choose their favourite fruit juice.

The chart shows the results.



(a) How many **more** children choose orange than apple?

children

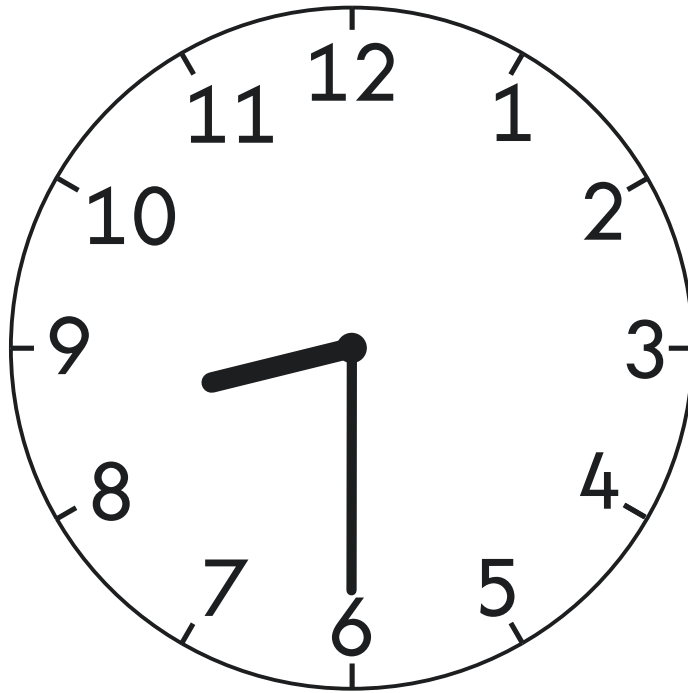
○
1 mark

(b) Another boy joins the group.

He chooses **mango** juice.

Add this information to the chart.

○
1 mark



What time does the clock show?

Tick the correct box.

twenty to 6

half past 9

half past 8

quarter to 6

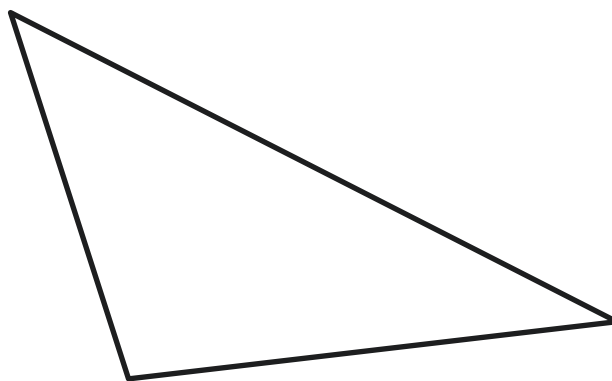


1 mark

12

Measure the longest line.

Use a ruler.

 cm

1 mark

13

Look at these numbers.

0

14

50

61

Write each number **once** to make these correct.

>

>

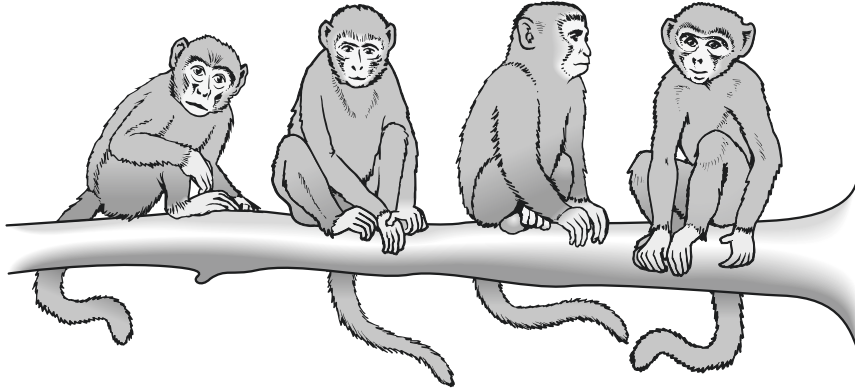


1 mark

14

20 bananas are shared equally among 4 monkeys.

How many bananas does **each** monkey get?



bananas

1 mark

15

Fill in the missing numbers to make each pair of cards **total 17**

One pair is done for you.

10	7
----	---

9	
---	--

	6
--	---



1 mark

16

Look at these coins:



What is the largest amount you can make using **three** of these coins?

p

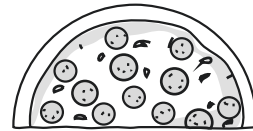


1 mark

17

Ben ate half a pizza.

Which fraction shows the amount he ate?



Circle it.

$$\frac{1}{4}$$

$$\frac{1}{3}$$

$$\frac{2}{4}$$

$$\frac{3}{4}$$



1 mark

18Write six **different** numbers to make these sums correct.

$$\square + \square = 27$$

$$\square + \square = 27$$

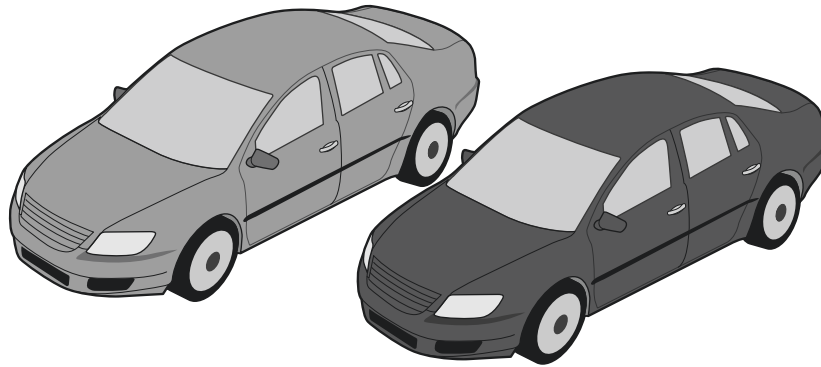
$$\square + \square = 27$$



2 marks

19

Ben and Sita count cars.



Ben counts **38** red cars.

Sita counts **23** blue cars.

How many cars do they count **altogether**?

cars

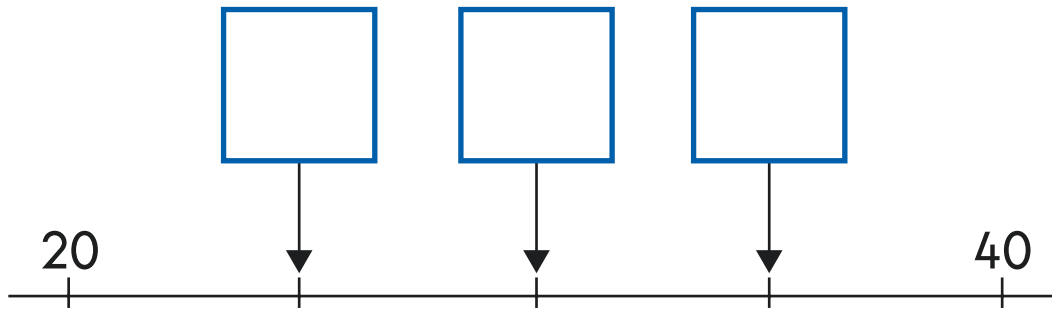


1 mark

20

The numbers on this number line go up by the **same amount** each time.

Write the missing numbers in the boxes.

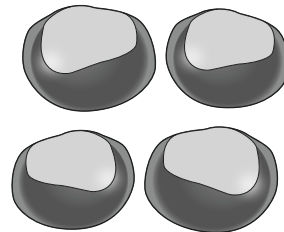


1 mark

21

Ajay, Sam and Kemi have 4 conkers each.

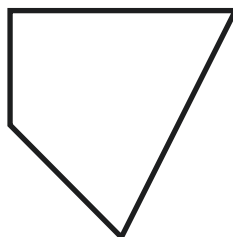
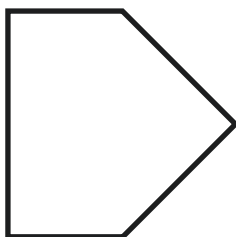
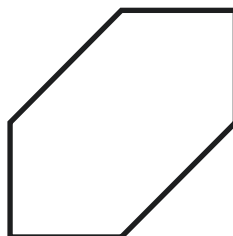
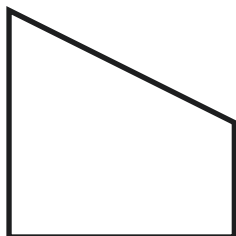
How many conkers do they have **altogether**?



1 mark

22

Tick the **pentagon**.



1 mark

23

Write the missing number to make this number sentence correct.

$$9 + 7 - \square = 12$$



1 mark

24

Tick the shape that has exactly $\frac{1}{3}$ shaded.



1 mark

25

Complete these sums.

One is done for you.

$$\boxed{3} + \boxed{7} = \boxed{10}$$

$$\boxed{33} + \boxed{} = \boxed{40}$$

$$\boxed{} + \boxed{7} = \boxed{80}$$

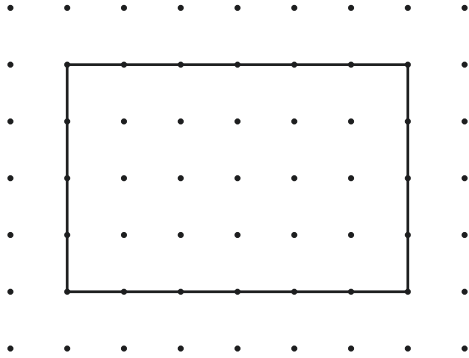


1 mark

26

Draw lines to divide the rectangle into quarters.

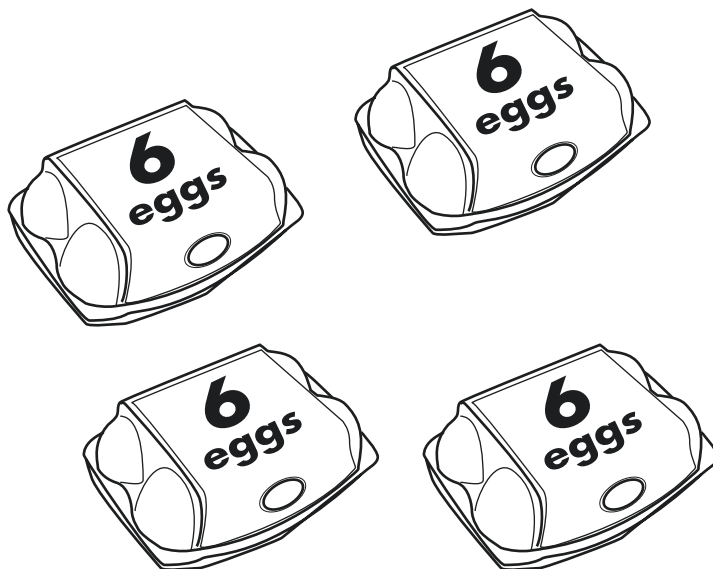
Use the dots to help you.



1 mark

27

Ben has 4 boxes of eggs.



Write a number sentence using \times and $=$ to show that Ben has **24** eggs altogether.



1 mark

28

There are **55** cakes.

20 boys and **19** girls each take a cake.

How many cakes are **left**?



Show
your
working

cakes

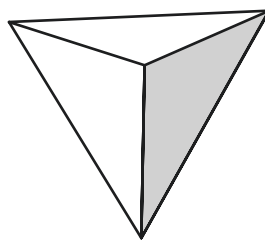
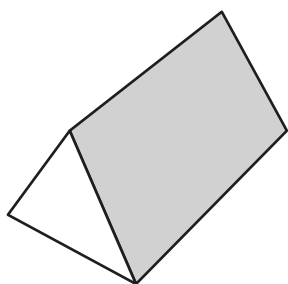
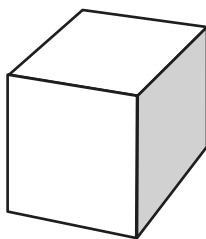
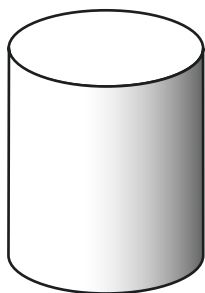


2 marks

29

Two shapes have **more than 8** edges.

Tick them.



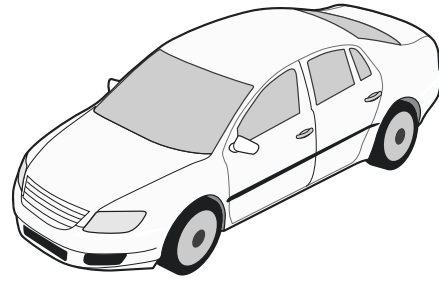
1 mark

30

There are **76** cars in the car park.

18 more cars go into the car park.

Then **35** cars go out.



How many cars are in the car park **now**?

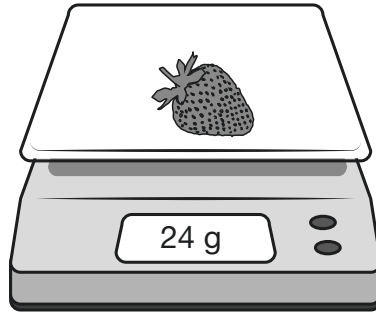
Show
your
working

cars

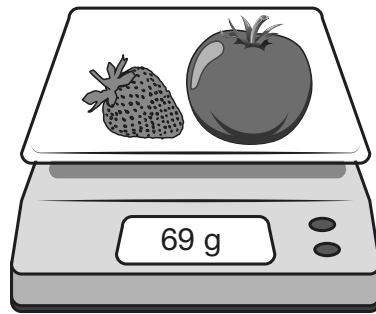


2 marks

31 The strawberry weighs **24** grams.



The strawberry and tomato together weigh **69** grams.



What does the tomato weigh?

g

1 mark

End of test

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2017 key stage 1 mathematics

Paper 2: reasoning

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