

2016 national curriculum tests

Key stage 1

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	
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Amy



Abdul

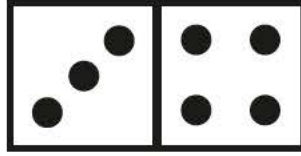
Sam

Ben

Sita

Kemi

Practice question



1

10 10 1 1
10 10 1 1
10 10 1
10 10 10 1 1
10 10



1 mark

2

children



1 mark

3



1 mark

4

40

7



1 mark

5

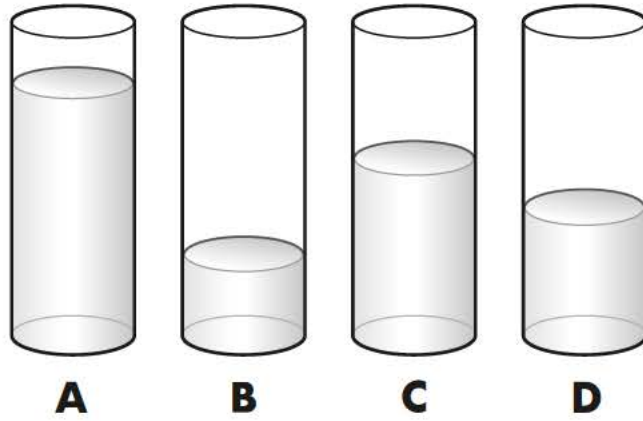
20

30



1 mark

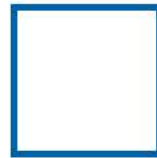
6



Sort the glasses from **least full** to **most full**.



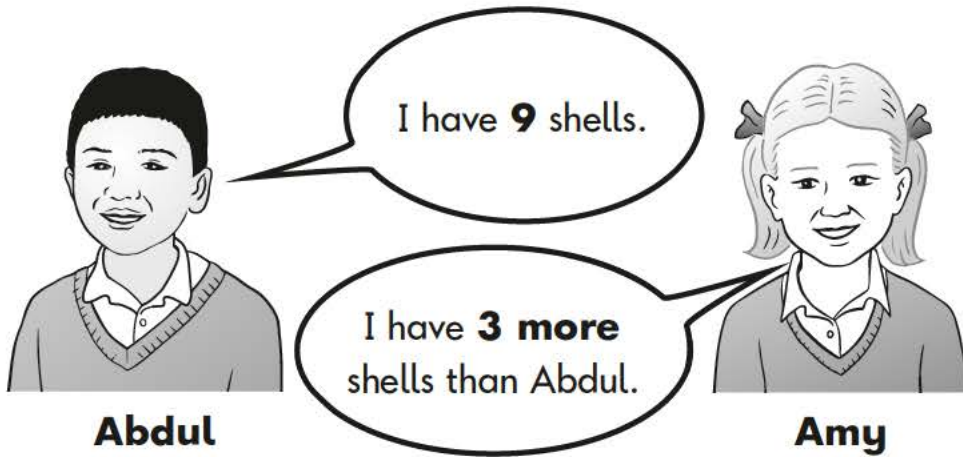
least full



most full



1 mark



How many shells does Amy have?









shells

1 mark

8

Match each coin to the correct box.

One has been done for you.

Less than 	More than 	
		
		
		
		
		



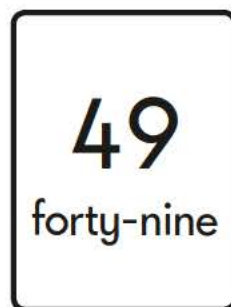
1 mark

9

On these cards, the word should match the number.

One of these cards is wrong.





Draw a cross on the card that is wrong.



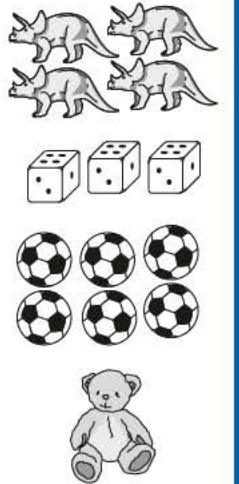

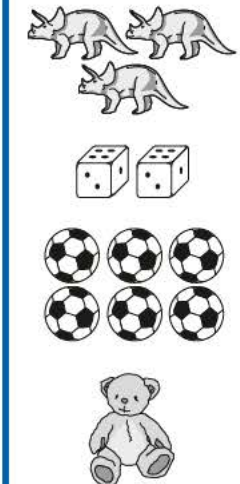
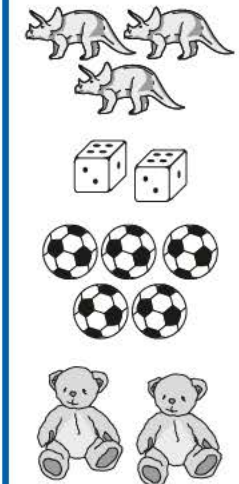
1 mark

10

Ben makes a tally chart of his toys.

Toys in my box	Tally
	
	
	
	

Tick **one** box below that shows all of Ben's toys.

			
---	---	--	---

○
1 mark

11 There are **20** balloons.

7 balloons fly away.



How many balloons are left?

balloons

1 mark

12 Tick the **two** sentences that are correct.

Tick **two**.

A square has sides of equal length.

A square has curved sides.

A square has lines of symmetry.

A square has five sides.

1 mark

13 Write two numbers to make this calculation correct.

$$\square + \square = 19$$

1 mark

Now write three numbers to make this calculation correct.

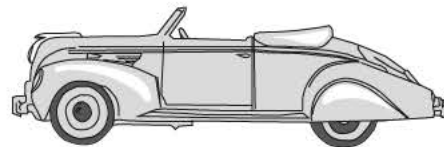
$$\square + \square + \square = 19$$

1 mark

14 Abdul has some toy cars.

He gives half of them to Ben.

He has four toy cars left.

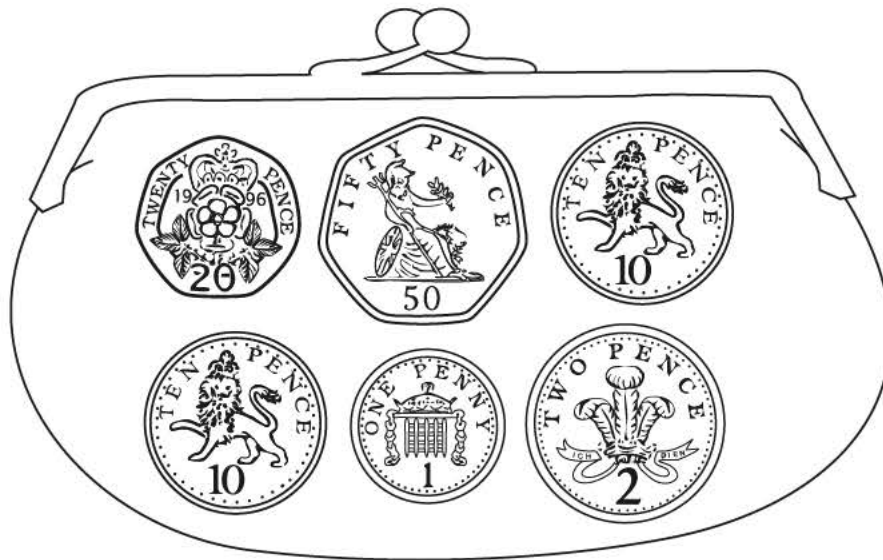


How many toy cars did Abdul start with?

1 mark

15

Sita has these coins in her purse.



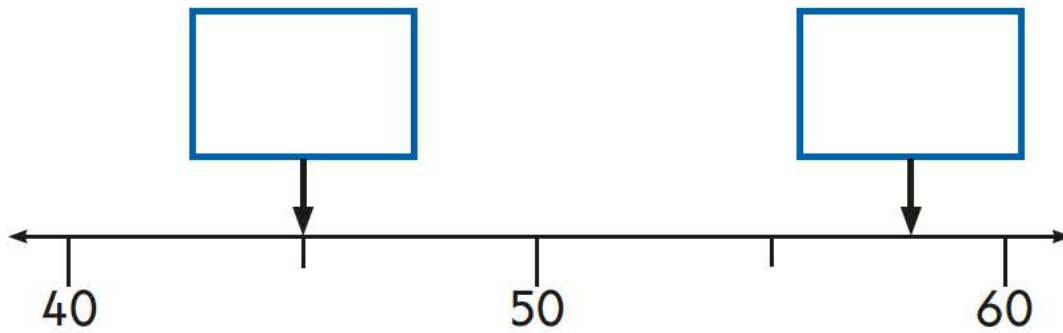
How much money does she have?

p

1 mark

16

Write the correct number in each box.

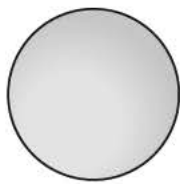


1 mark

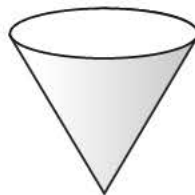


1 mark

17



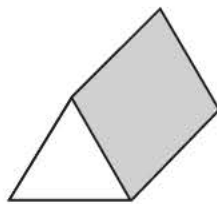
A



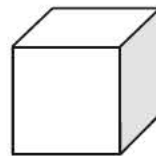
B



C



D



E

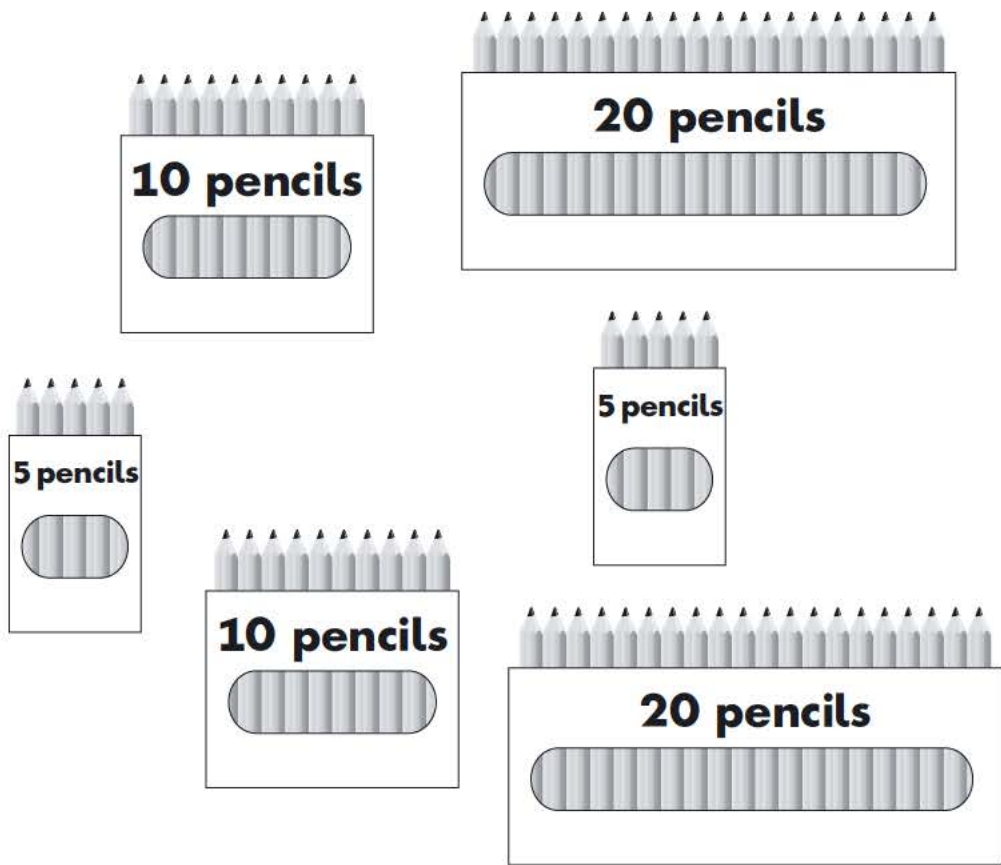
Which shape has exactly **5** faces?

Write the letter.



1 mark

18



Kemi and Ben share these pencils equally.

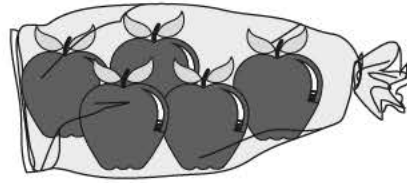
How many pencils do they each get?

pencils

1 mark

19 Miss Smith needs **30** apples for her class.

There are **5** apples in each bag.



How many **bags** of apples does Miss Smith need altogether?

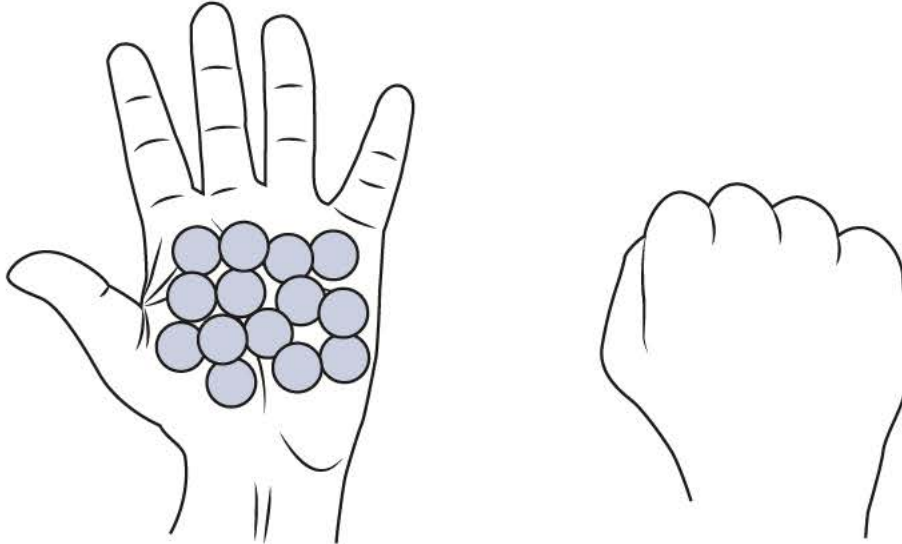
bags

○
1 mark

20

Amy has **21** counters altogether.

She has **14** counters in one hand.



How many counters does she have in the other hand?

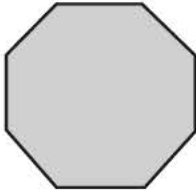
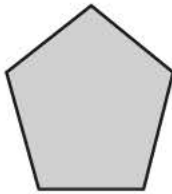
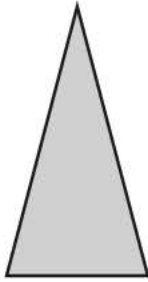
counters



1 mark

21

Draw lines to match the shapes to their names.



pentagon

triangle

octagon

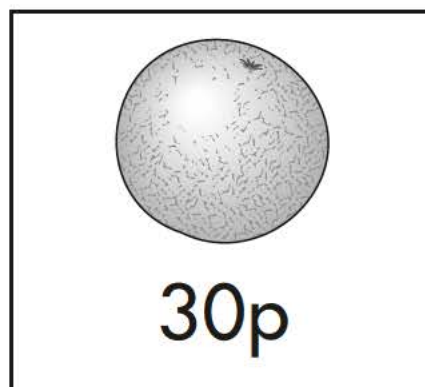
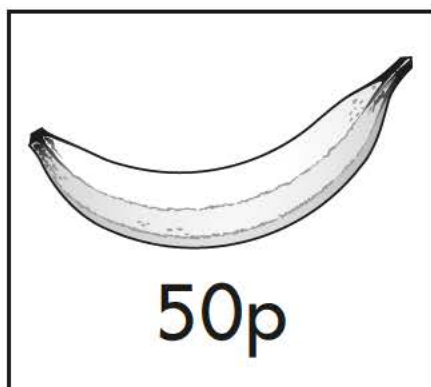
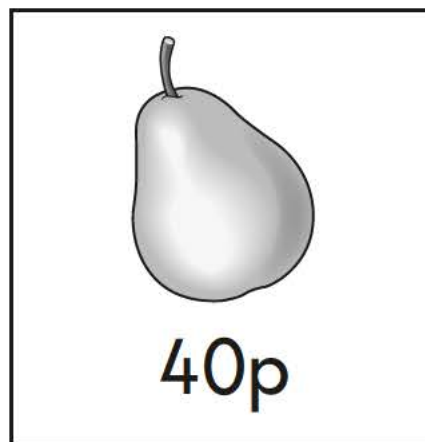
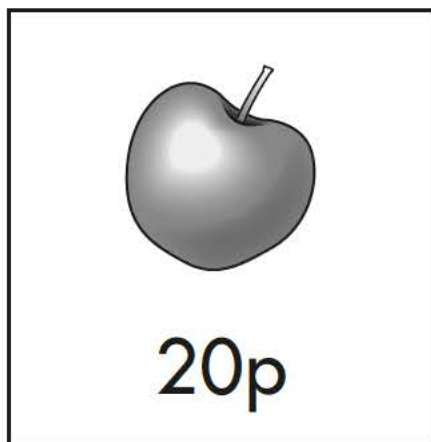
hexagon



1 mark

22

Look at these four fruits.



Kemi buys **three different** fruits.

She spends exactly **£1**

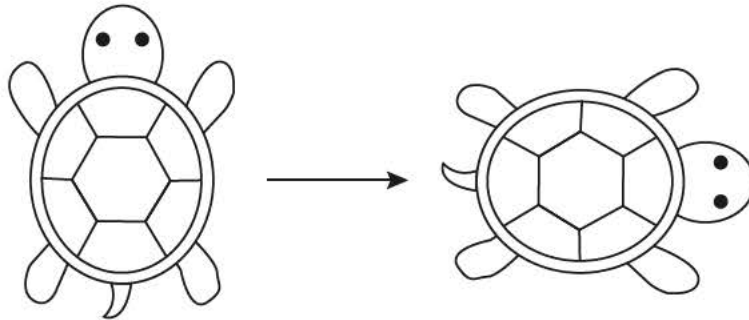
Tick the **three** fruits that she buys.



1 mark

23

This turtle is rotated **clockwise**.



How much is the turtle rotated?

Circle your answer.

quarter
turn

half
turn

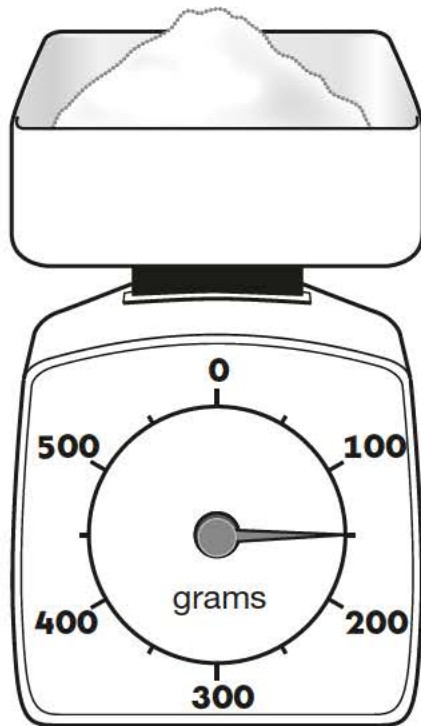
three-quarter
turn

full
turn

1 mark

24

How much does the sugar weigh?

 g

1 mark

25

Match the sums that have the same answer.

One is done for you.

$$20 + 8$$

$$30 + 28$$

$$50 + 8$$

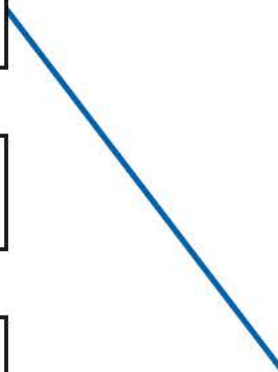
$$70 + 18$$

$$80 + 8$$

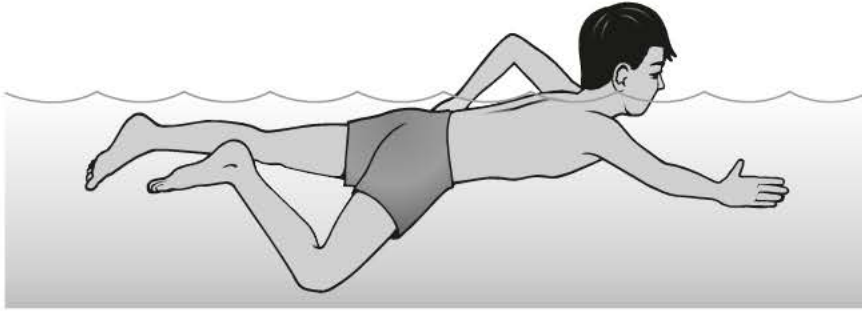
$$10 + 18$$

$$90 + 8$$

$$50 + 48$$



1 mark



One length of a swimming pool is **10** metres.

Abdul swims the length of the pool **4** times.

Abdul works out how many metres he swims altogether.

Circle the **two** calculations that Abdul can use.

$$10 + 4$$

$$4 \times 10$$

$$10 + 10 + 10 + 10$$

$$4 + 4 + 4 + 4$$

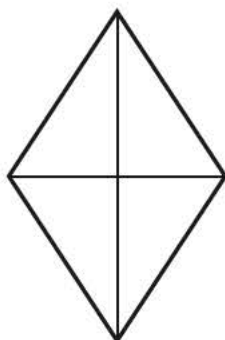


1 mark

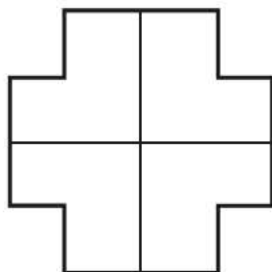
27

Shade the fractions of the shapes.

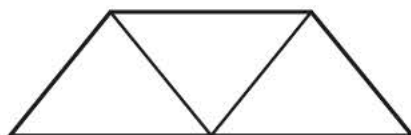
Shade $\frac{1}{2}$



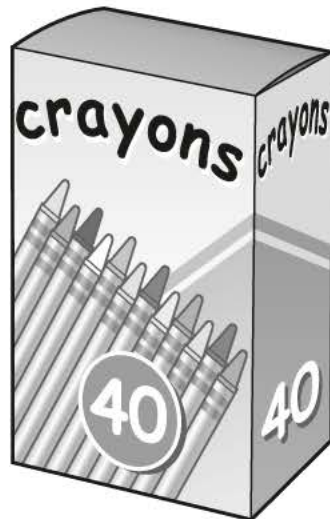
Shade $\frac{3}{4}$



Shade $\frac{1}{3}$



2 marks



There are **40** crayons in a box.

Sam takes **17** crayons.

Kemi takes **10** crayons.

How many crayons are left?

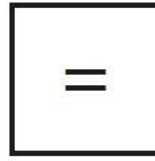
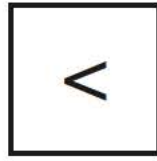
Show
your
working

crayons

2 marks

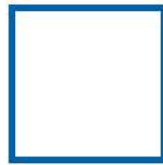
29

Here are some signs.



Write the correct sign in each box.

$10 + 5$



10×5

2×6



$6 + 6$



1 mark

30

Ben has **75** cherries.He eats **28** of them.

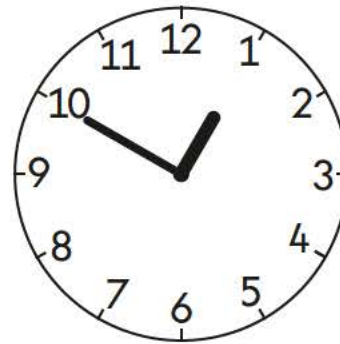
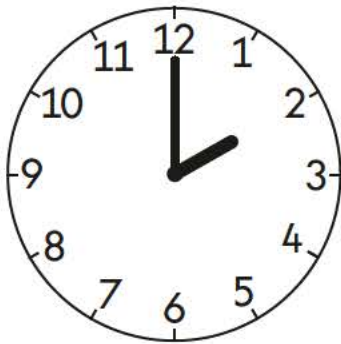
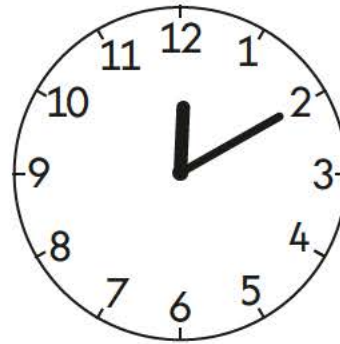
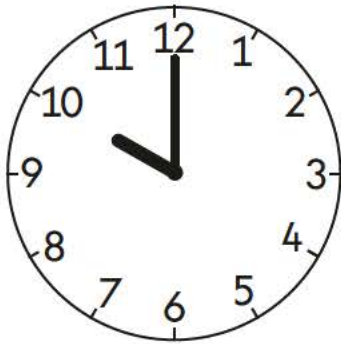
How many cherries does he have left?



1 mark

31

Tick the clock face that shows **ten past twelve**.



1 mark

END OF TEST



2016 key stage 1 mathematics

Paper 2: reasoning

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