

2016 national curriculum tests

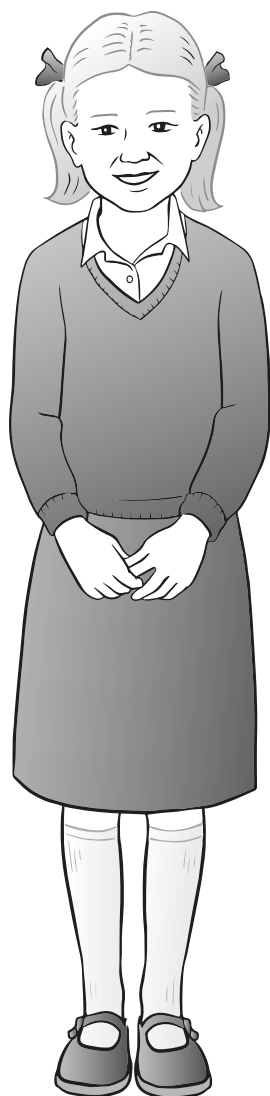
# Key stage 1

## Mathematics

### Paper 2: reasoning

First name	
Middle name	
Last name	

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



**Amy**



**Abdul**

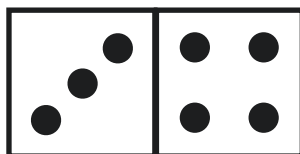
Sam

Ben

Sita

Kemi

## Practice question



1

10                    10                    1                    1

                  10                    1                    1

10                    10                    1                    1

                  1                    1

10                    10                    10                    1                    1

                  10                    1                    1



1 mark

2

children



1 mark

3



1 mark

4

40

7



1 mark

5

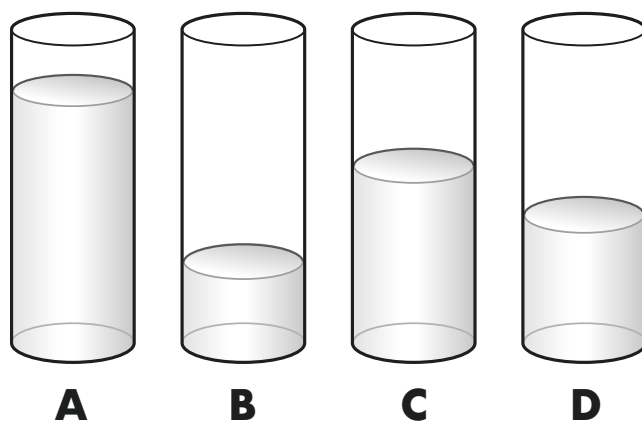
20

30



1 mark

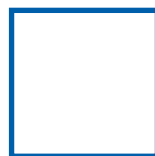
6



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



**least full**

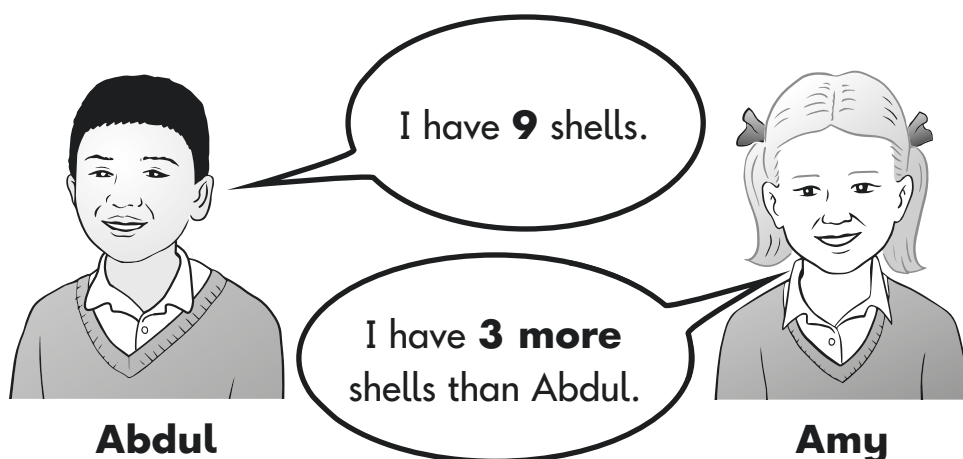


**most full**



1 mark

7



How many shells does Amy have?

shells










1 mark

8

Match each coin to the correct box.

One has been done for you.

<p>Less than</p> 	<p>More than</p> 	
<p><i>(A blue line is drawn from the 5p coin to this box)</i></p>		
		
		
		
		



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.

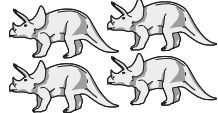



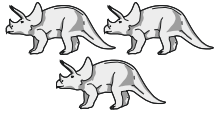
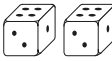


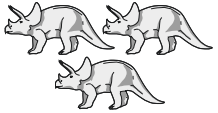
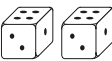
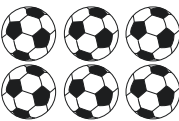

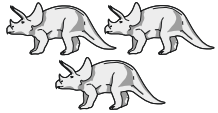
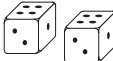

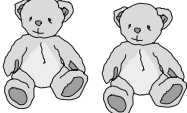


1 mark

10 Ben makes a tally chart of his toys.

Toys in my box	Tally
	
	
	<del>    </del>
	

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.

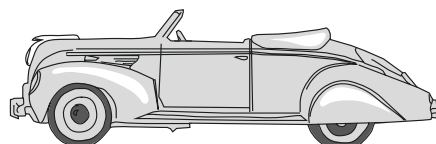
$$\square + \square + \square = 19$$



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?

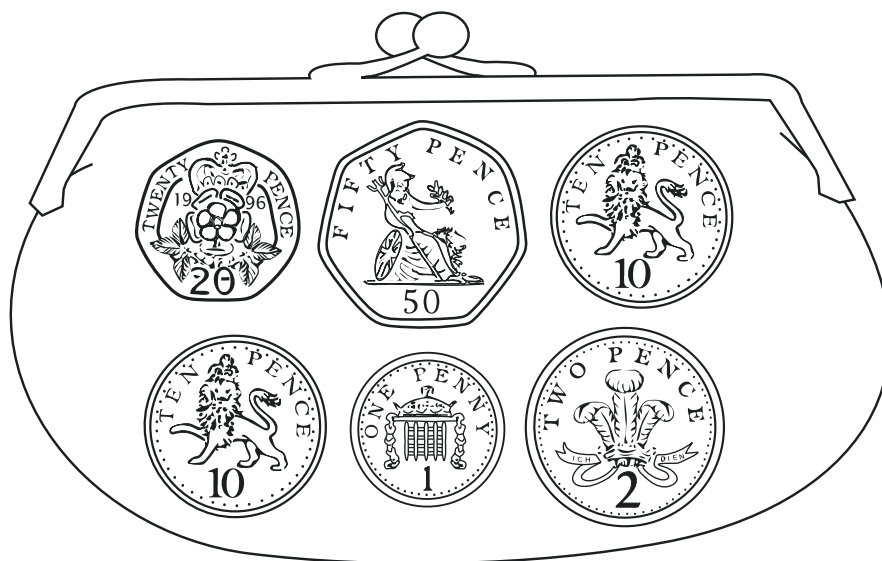
toy cars



1 mark

15

Sita has these coins in her purse.



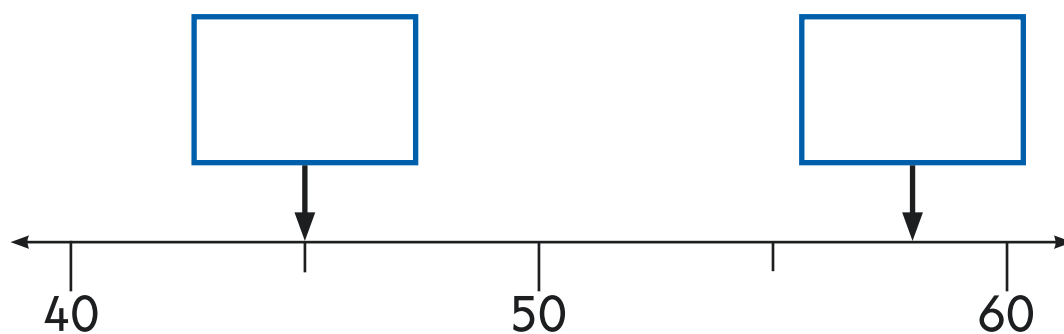
How much money does she have?

p



1 mark

**16** Write the correct number in each box.

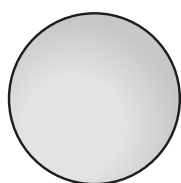
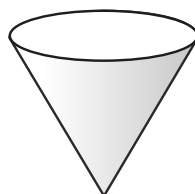
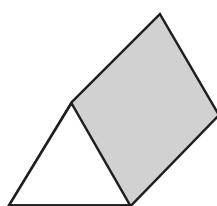
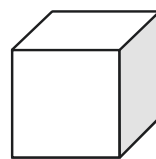


1 mark



1 mark

**17**

**A****B****C****D****E**

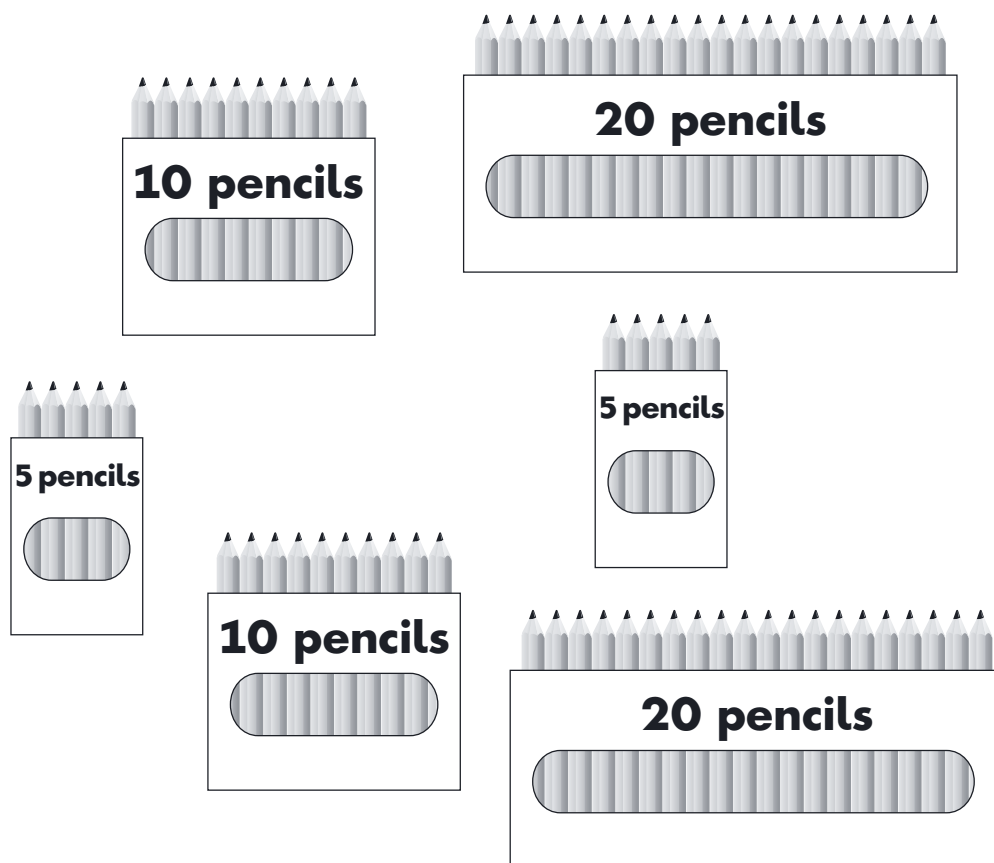
Which shape has exactly **5** faces?

Write the letter.



1 mark

18



Kemi and Ben share these pencils equally.

How many pencils do they each get?

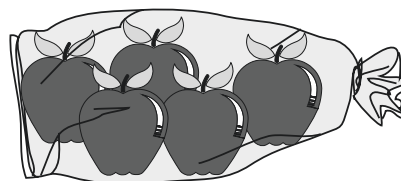
pencils



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?

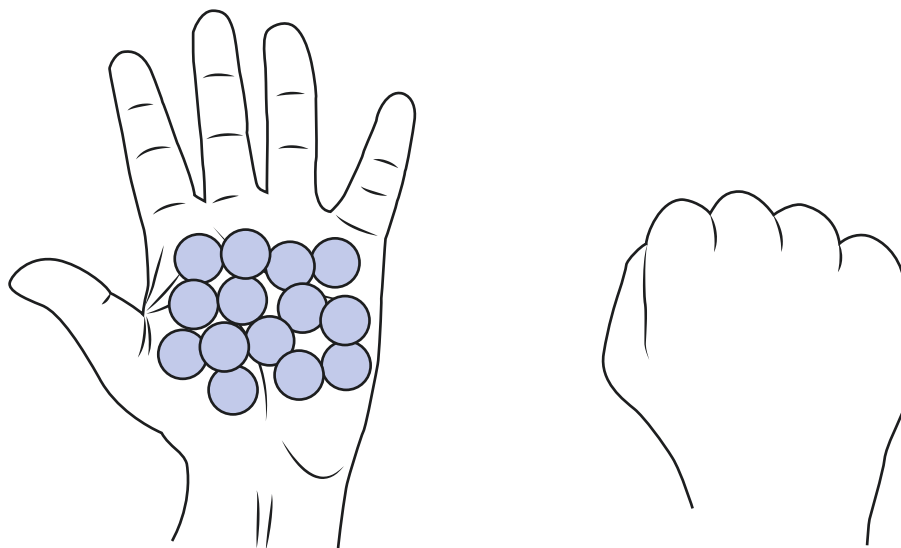
 bags

1 mark



**20** Amy has **21** counters altogether.

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

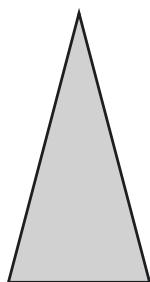


How many counters does she have in the other hand?

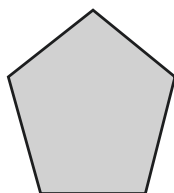
 counters

1 mark

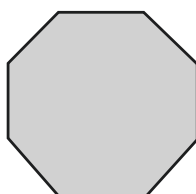
**21** Draw lines to match the shapes to their names.



pentagon



triangle



octagon

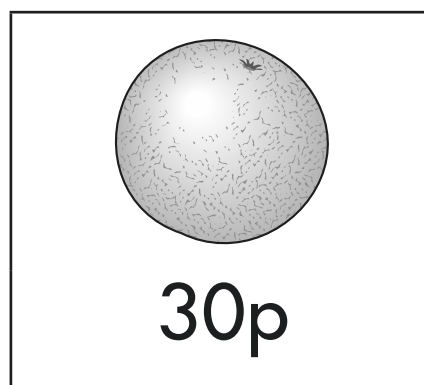
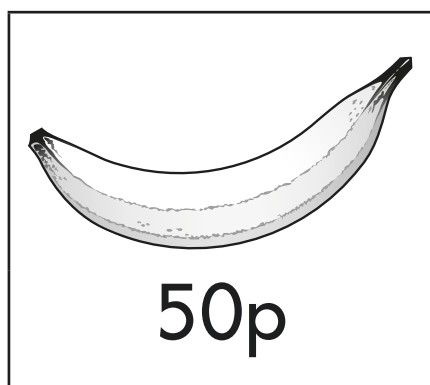
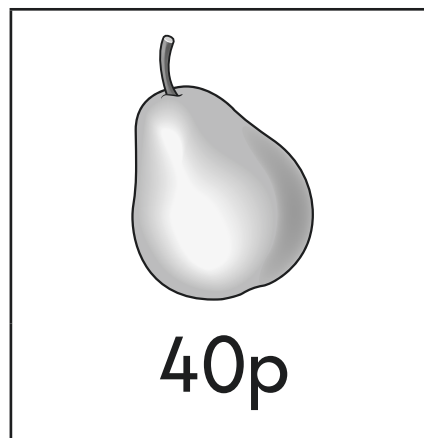
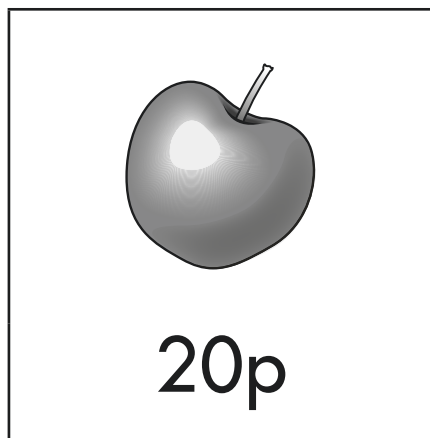
hexagon



1 mark

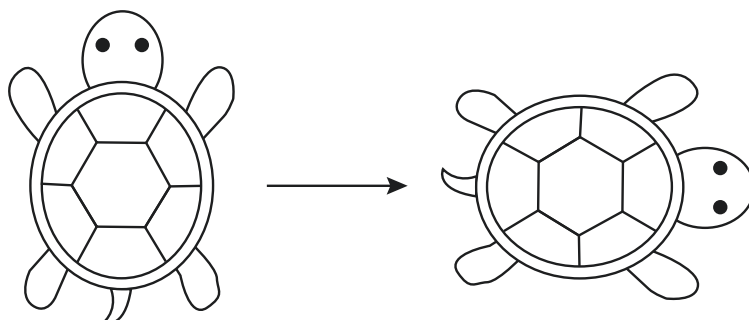
**22**

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

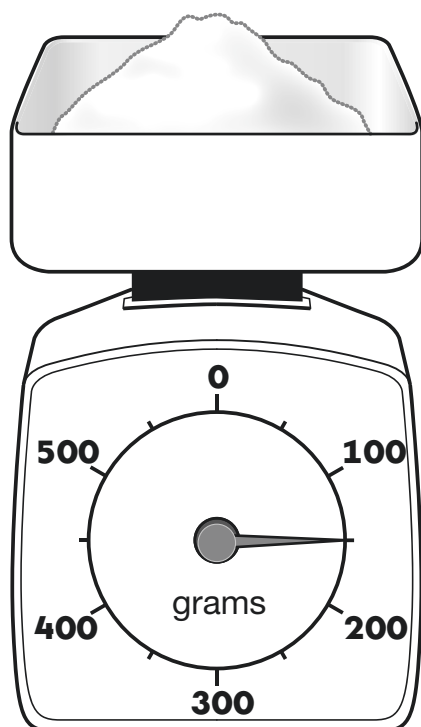
full  
turn



1 mark

**24**

How much does the sugar weigh?

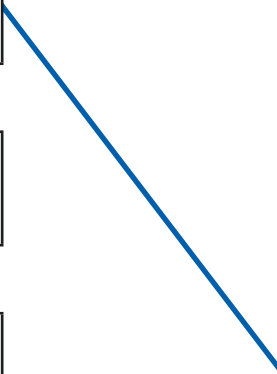
 g

1 mark

**25** Match the sums that have the same answer.

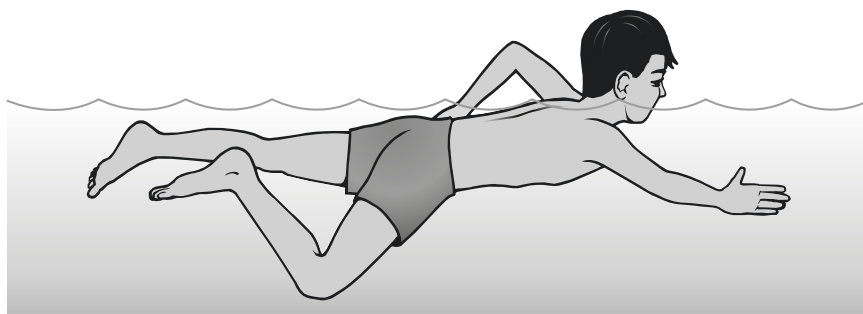
One is done for you.

$20 + 8$	$30 + 28$
$50 + 8$	$70 + 18$
$80 + 8$	$10 + 18$
$90 + 8$	$50 + 48$



1 mark

26



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.

$$10 + 4$$

$$4 \times 10$$

$$10 + 10 + 10 + 10$$

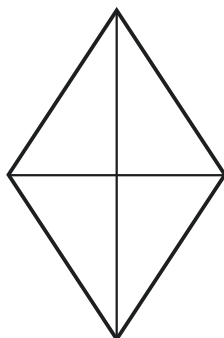
$$4 + 4 + 4 + 4$$



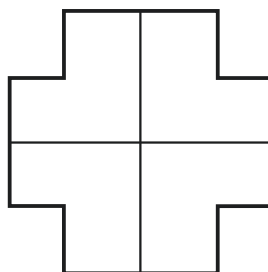
1 mark

**27** Shade the fractions of the shapes.

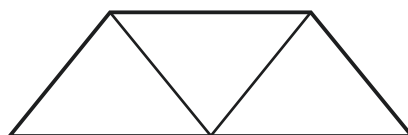
Shade  $\frac{1}{2}$



Shade  $\frac{3}{4}$



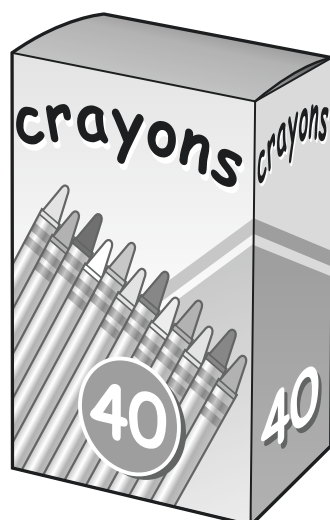
Shade  $\frac{1}{3}$



2 marks



28



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

Sam takes **17** crayons.

Kemi takes **10** crayons.

How many crayons are left?

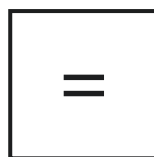
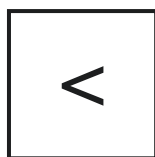
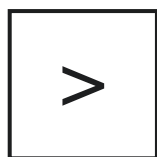
Show  
your  
working

crayons



2 marks

**29** Here are some signs.



Write the correct sign in each box.

$10 + 5$

$10 \times 5$

$2 \times 6$

$6 + 6$



1 mark

**30** Ben has **75** cherries.

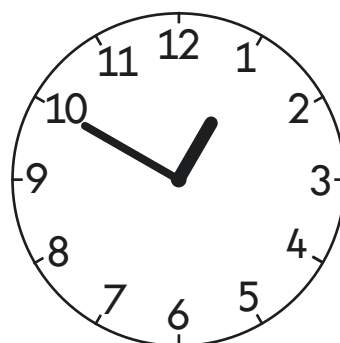
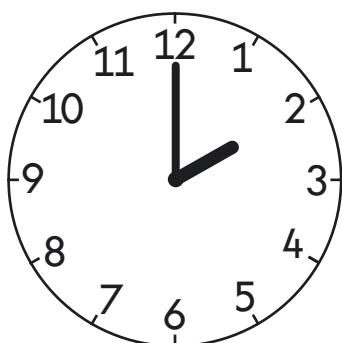
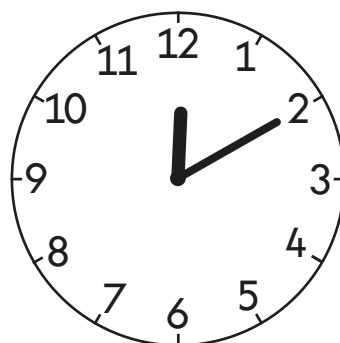
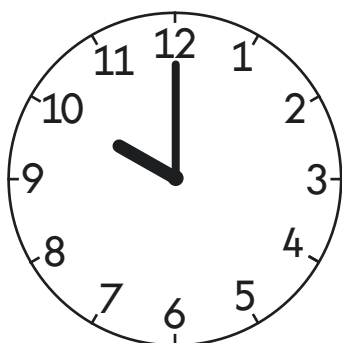
He eats **28** of them.



How many cherries does he have left?



1 mark

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

1 mark

**END OF TEST**



Standards  
& Testing  
Agency

2016 key stage 1 mathematics

Paper 2: reasoning

Print version product code: STA/16/7365/p ISBN: 978-1-78315-911-6

Electronic PDF version product code: STA/16/7365/e ISBN: 978-1-78315-912-3

### For more copies

Additional printed copies of this booklet are not available. It can be downloaded from [www.gov.uk/government/publications](http://www.gov.uk/government/publications).

© Crown copyright and Crown information 2016

### Re-use of Crown copyright and Crown information in test materials

Subject to the exceptions listed below, the test materials on this website are Crown copyright or Crown information and you may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0 which can be found on the National Archives website and accessed via the following link: [www.nationalarchives.gov.uk/doc/open-government-licence](http://www.nationalarchives.gov.uk/doc/open-government-licence).

When you use this information under the Open Government Licence v3.0, you should include the following attribution: 'Contains public sector information licensed under the Open Government Licence v3.0' and where possible provide a link to the licence.



### Exceptions – third-party copyright content in test materials

You must obtain permission from the relevant copyright owners, as listed in the '2016 key stage 1 tests copyright report', for re-use of any third-party copyright content which we have identified in the test materials, as listed below. Alternatively you should remove the unlicensed third-party copyright content and/or replace it with appropriately licensed material.

### Third-party content

These materials contain no third-party copyright content.

If you have any queries regarding these test materials contact the national curriculum assessments helpline on 0300 303 3013 or email [assessments@education.gov.uk](mailto:assessments@education.gov.uk).