

2016 national curriculum tests

# Key stage 1

## Mathematics

### Paper 2: reasoning

First name	
Middle name	
Last name	

<b>Total marks</b>	
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**Amy**



**Abdul**

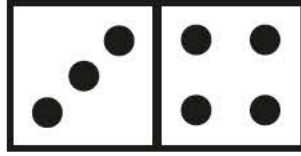
Sam

Ben

Sita

Kemi

## Practice question



1

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

○  
1 mark

2

children

1 mark

3

1 mark

4

40

7



1 mark

5

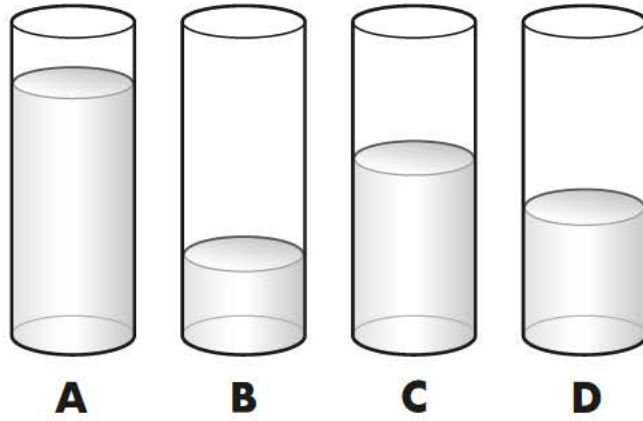
20

30

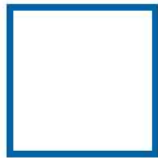


1 mark

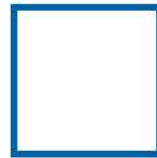
6



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



**least full**

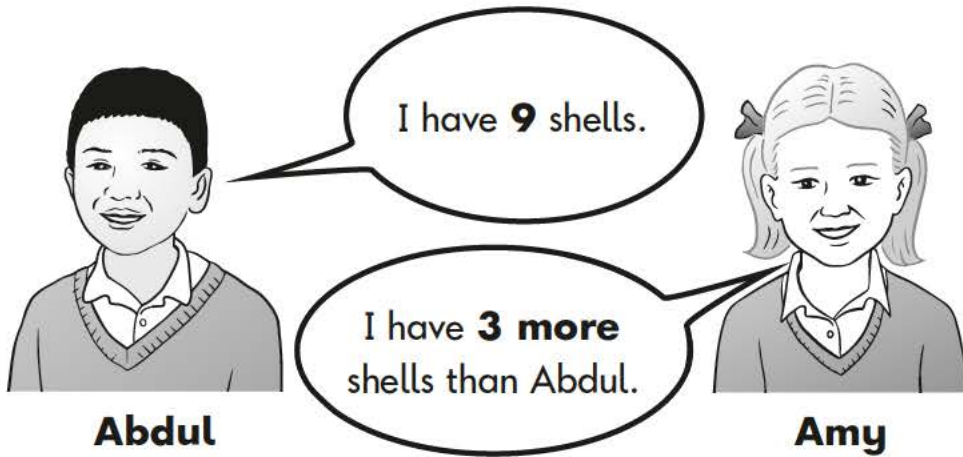


**most full**



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.

<b>Less than</b> 	<b>More than</b> 	
		
		
		
		
		
		



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

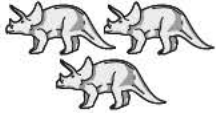
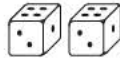


10

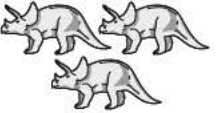
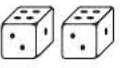


Ben makes a tally chart of his toys.

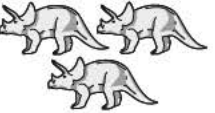
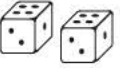

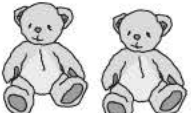
Toys in my box	Tally
	
	
	<del>    </del>
	

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?

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.

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

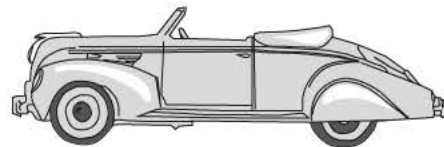
1 mark

14

Abdul has some toy cars.

He gives half of them to Ben.

He has four toy cars left.

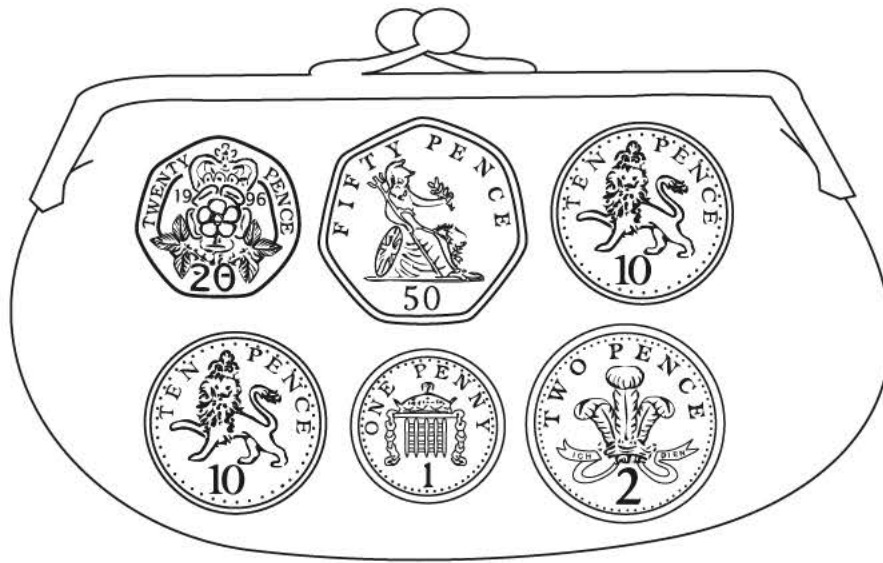


How many toy cars did Abdul start with?

1 mark

15

Sita has these coins in her purse.



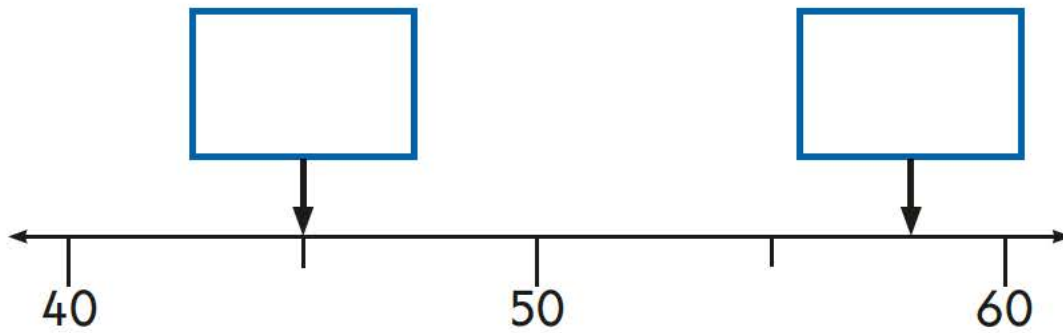
How much money does she have?

p

1 mark

16

Write the correct number in each box.

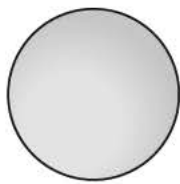


1 mark

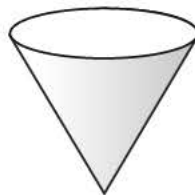


1 mark

17



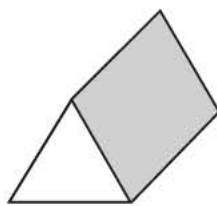
**A**



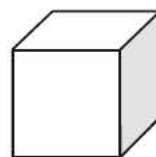
**B**



**C**



**D**



**E**

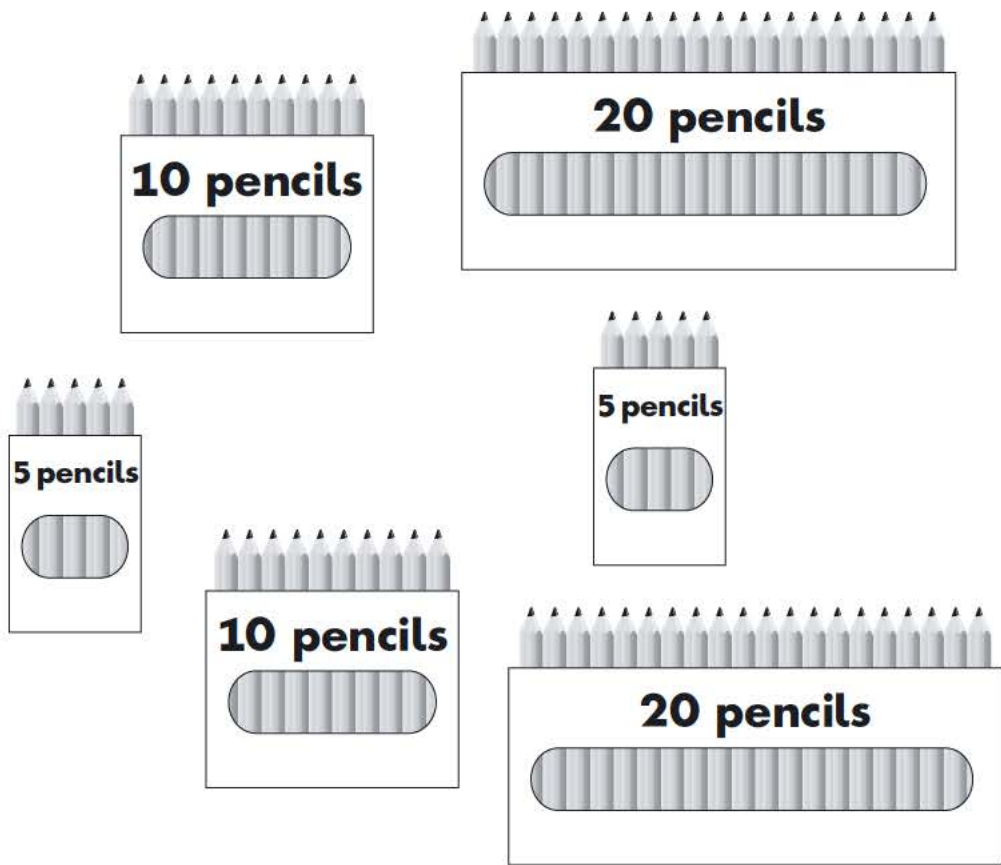
Which shape has exactly **5** faces?

Write the letter.



1 mark

18



Kemi and Ben share these pencils equally.

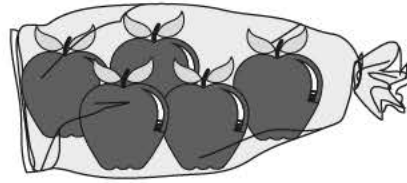
How many pencils do they each get?

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

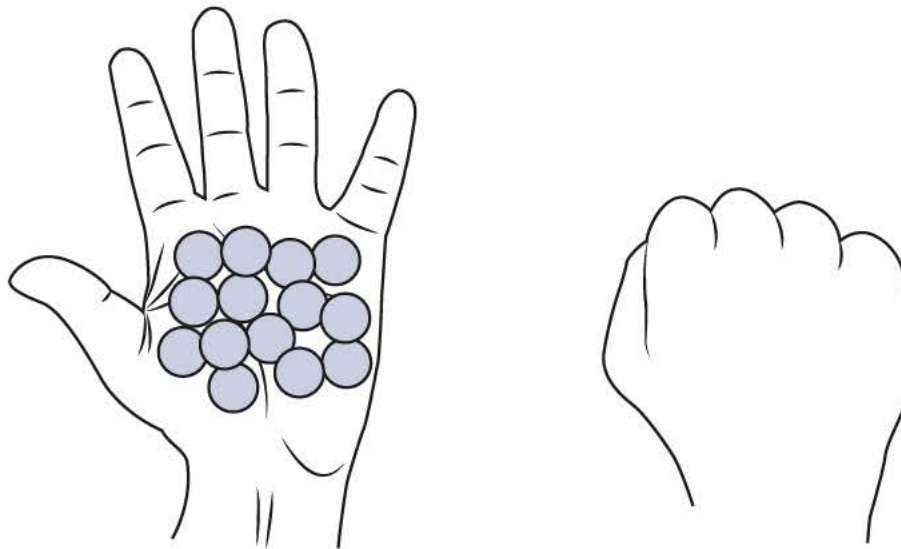
1 mark



20

Amy has **21** counters altogether.

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

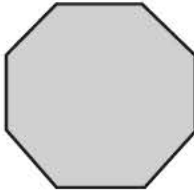
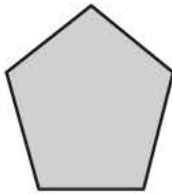
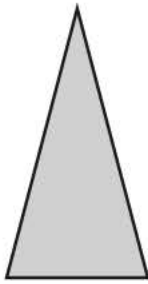


How many counters does she have in the other hand?

1 mark

21

Draw lines to match the shapes to their names.



pentagon

triangle

octagon

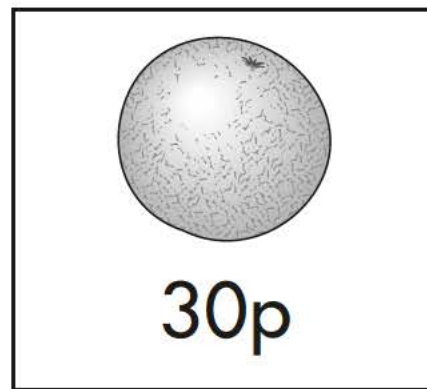
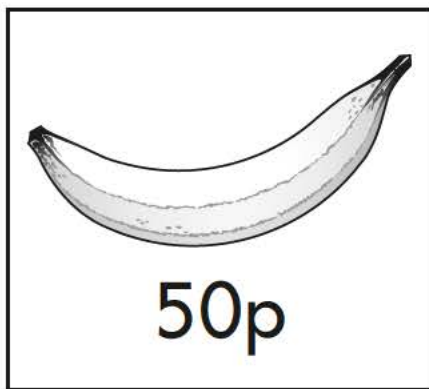
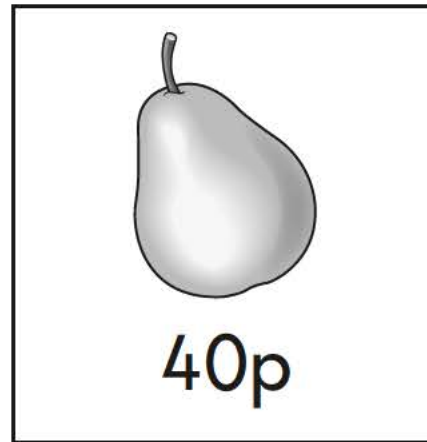
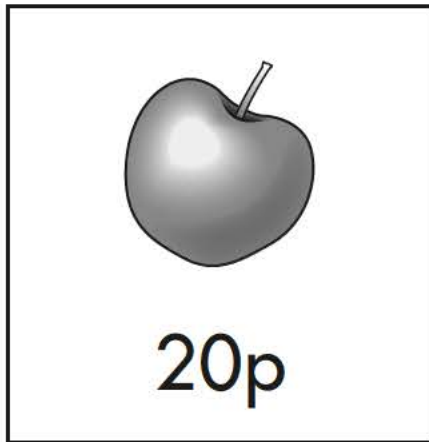
hexagon



1 mark

22

Look at these four fruits.



Kemi buys **three different** fruits.

She spends exactly **£1**

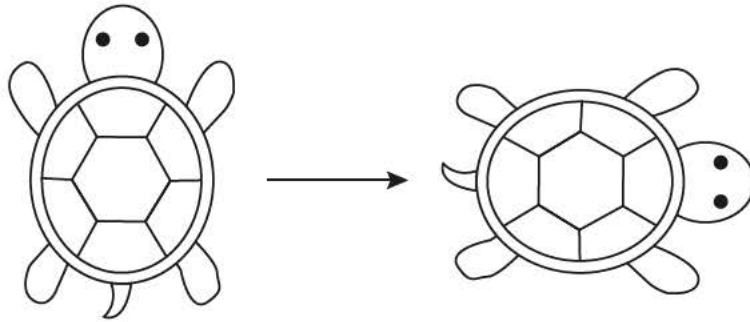
Tick the **three** fruits that she buys.



1 mark

23

This turtle is rotated **clockwise**.



How much is the turtle rotated?

Circle your answer.

quarter  
turn

half  
turn

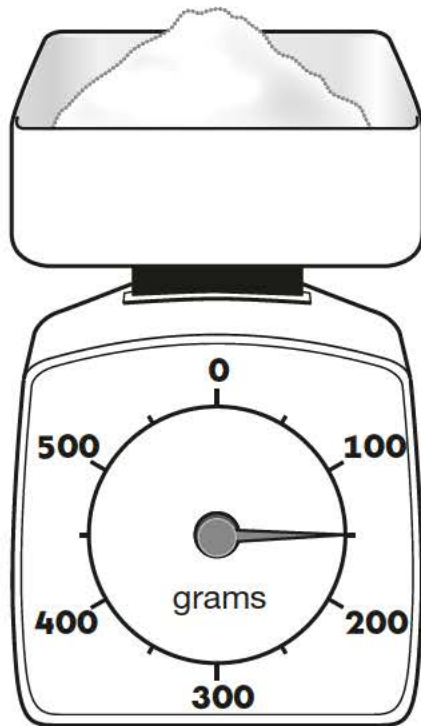
three-quarter  
turn

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.

$$20 + 8$$

$$30 + 28$$

$$50 + 8$$

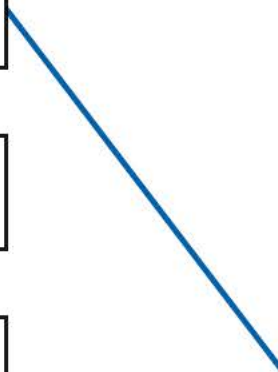
$$70 + 18$$

$$80 + 8$$

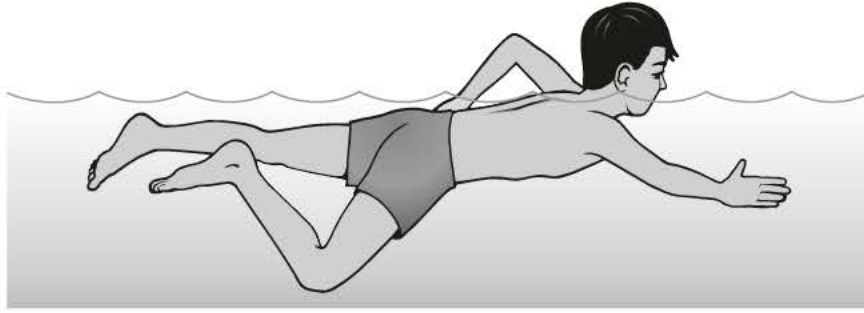
$$10 + 18$$

$$90 + 8$$

$$50 + 48$$



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.

$$10 + 4$$

$$4 \times 10$$

$$10 + 10 + 10 + 10$$

$$4 + 4 + 4 + 4$$

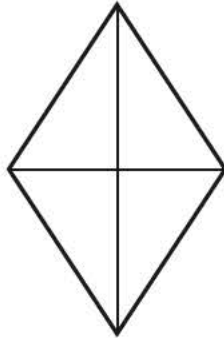


1 mark

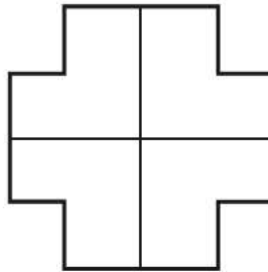
27

Shade the fractions of the shapes.

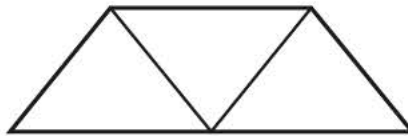
Shade  $\frac{1}{2}$



Shade  $\frac{3}{4}$

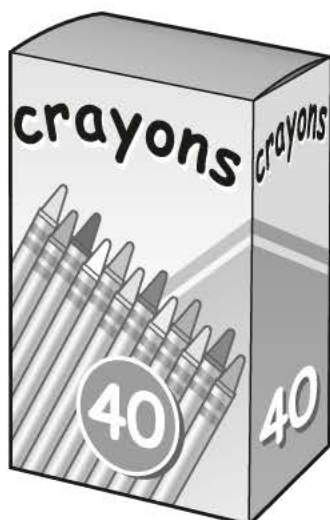


Shade  $\frac{1}{3}$



2 marks





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

Sam takes **17** crayons.

Kemi takes **10** crayons.

How many crayons are left?

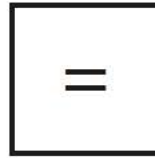
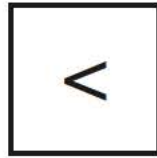
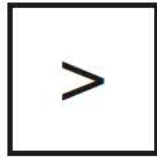
Show  
your  
working

crayons

2 marks

29

Here are some signs.



Write the correct sign in each box.

$10 + 5$

$10 \times 5$

$2 \times 6$

$6 + 6$



1 mark

30

Ben has **75** cherries.

He eats **28** of them.

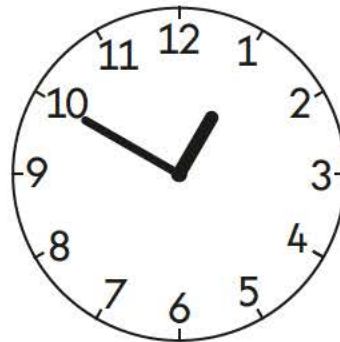
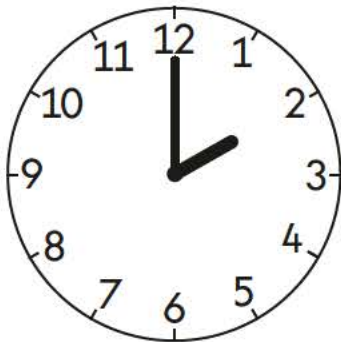
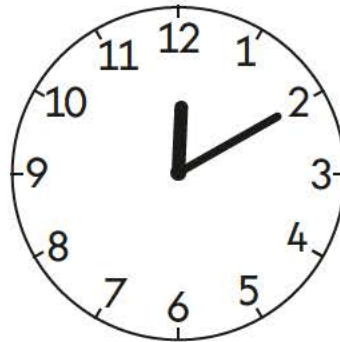
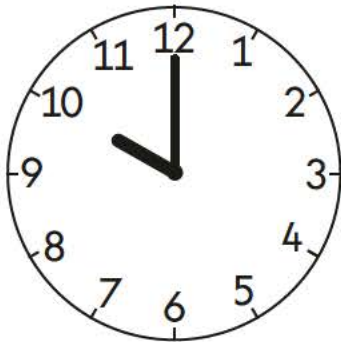
How many cherries does he have left?



1 mark

31

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



1 mark

**END OF TEST**



2016 key stage 1 mathematics

Paper 2: reasoning

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