

**Ma**

KEY STAGE

**2**

LEVELS

**3-5**

# Mathematics test

## Test A

Calculator **not** allowed

First name	
Middle name	
Last name	
School	
DfE number	

For marker's use only

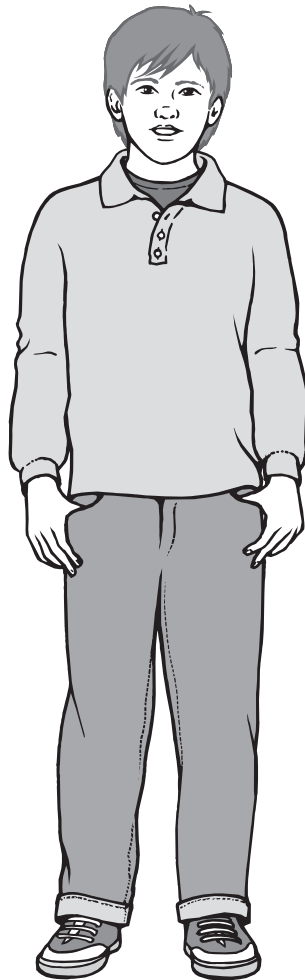
Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
<b>Total</b>	

# 2012

These three children appear in some of the questions in this test.



Kirsty



Seb



Mina

# Instructions

You **may not** use a calculator to answer any questions in this test.

Work as quickly and as carefully as you can.

You have **45 minutes** for this test.

If you cannot do one of the questions, **go on to the next one**.

You can come back to it later, if you have time.

If you finish before the end, **go back and check your work**.

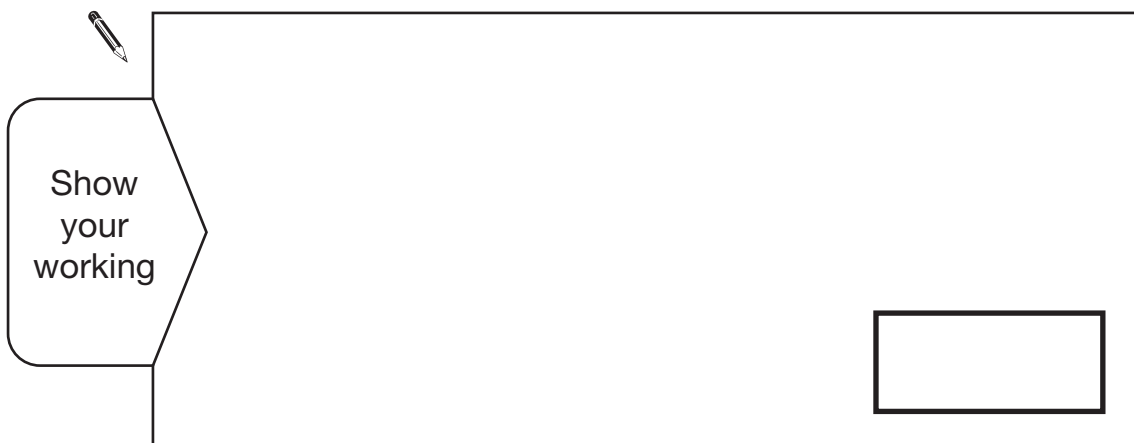
**Follow the instructions for each question carefully.**



This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.

**Some questions have an answer box like this:**

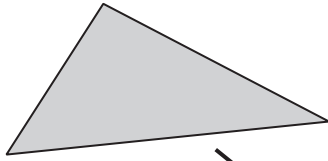


For these questions you may get a mark for showing your working.

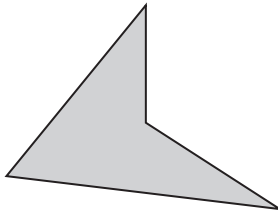
1

Match each shape to the correct name.

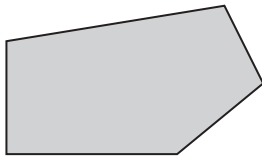
One has been done for you.



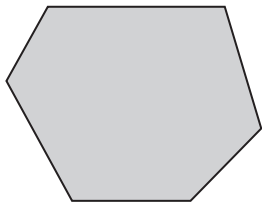
pentagon



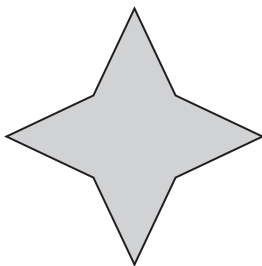
triangle



octagon



quadrilateral



hexagon

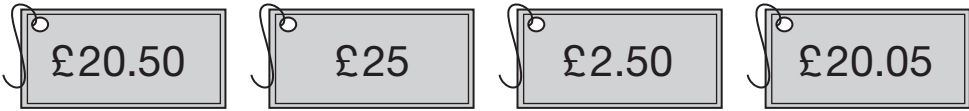
1i  
\_\_\_\_\_

1ii  
\_\_\_\_\_

2 marks

**2**

Write these prices in order, starting with the **smallest**.





smallest

2  
1 mark

**3**

Circle the number which is **closer to 1000**



996

1006

Explain how you know.

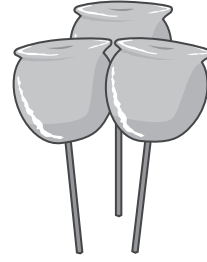


3  
1 mark

4

Kirsty, Seb and Mina made toffee apples to sell at the school fair.

They made **80** toffee apples altogether.




Kirsty sold **12** toffee apples.

Seb sold **25** toffee apples.

Mina sold **17** toffee apples.

How many toffee apples were left?

 Show your working

4ai  
\_\_\_\_\_  
4aii  
\_\_\_\_\_  
2 marks

Kirsty sold her 12 toffee apples for 50p each.

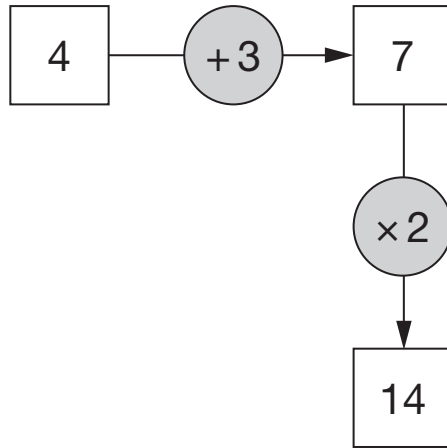
How much money did she collect?



4b  
\_\_\_\_\_  
1 mark

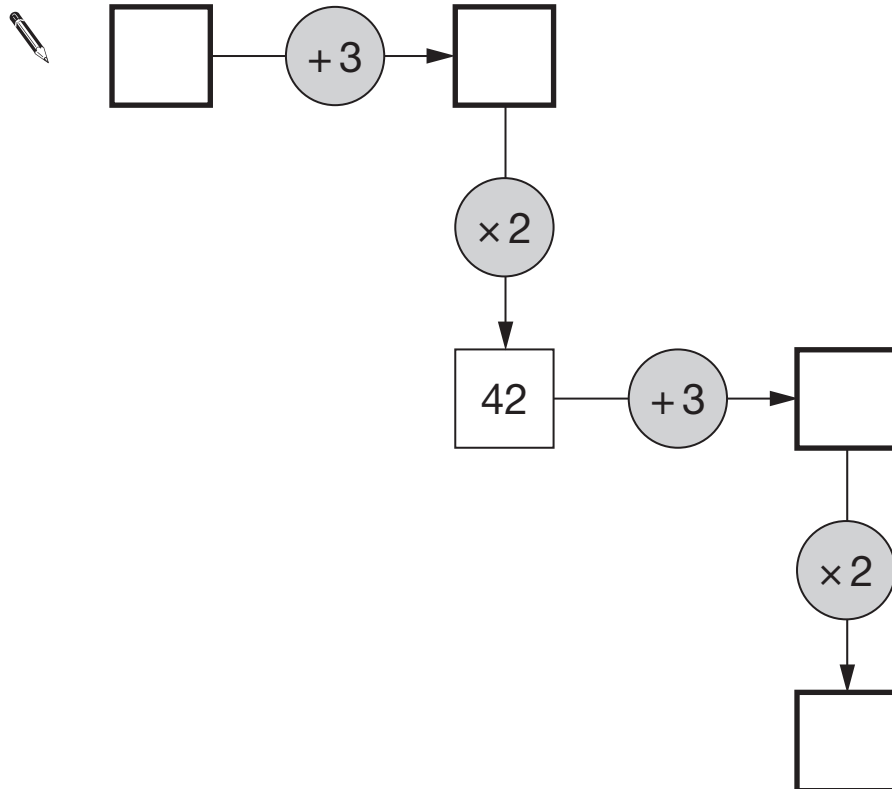
**5**

Here is a number machine.



Here is another number machine.

Write the four missing numbers.



5i \_\_\_\_\_  
 5ii \_\_\_\_\_  
 2 marks

6

Kirsty, Seb, Mina, Jack and Donna belong to a sports club.

This table shows the sports they do in one week.

	Mon	Tues	Wed	Thurs	Fri
Swimming	Kirsty Jack		Jack	Kirsty Donna	Donna
Jogging	Seb	Mina			Mina Kirsty Jack
Cycling		Kirsty Donna		Jack	Seb

How many of the children do **not** go swimming?




6a

1 mark

Write the names of all the children who go **both** jogging **and** cycling.




---

6b

1 mark



7

Calculate  $507 - 291$ 

7  
1 mark

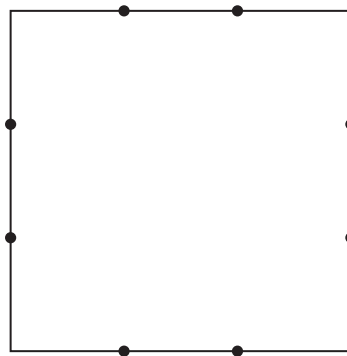
8

This square has two dots on each side.

The dots are equally spaced.

Join two dots to divide the square into **two equal parts**.

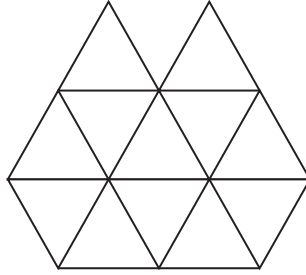
Use a ruler.



8  
1 mark

9

Shade  $\frac{1}{4}$  of this shape.



9

1 mark

10

Complete this table to show the numbers rounded to the **nearest 100**

One has been done for you.



	rounded to the nearest hundred
316	300
3162	
31628	
316281	

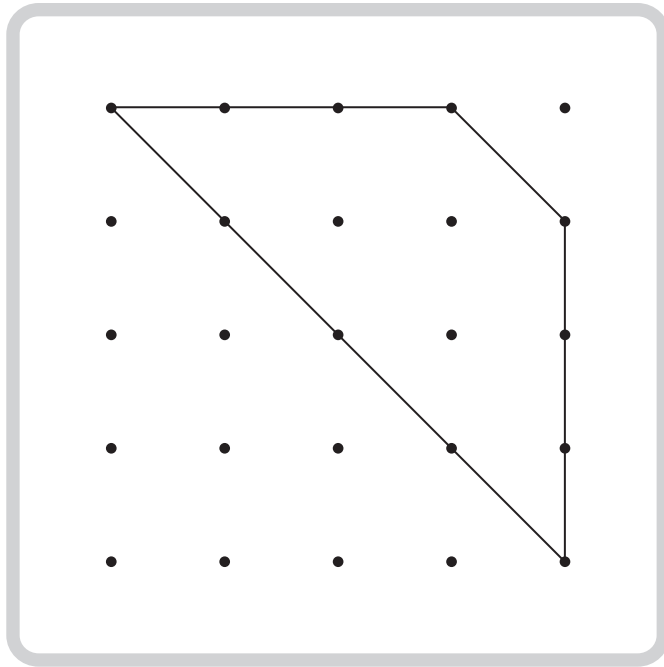
10i

10ii

2 marks

11

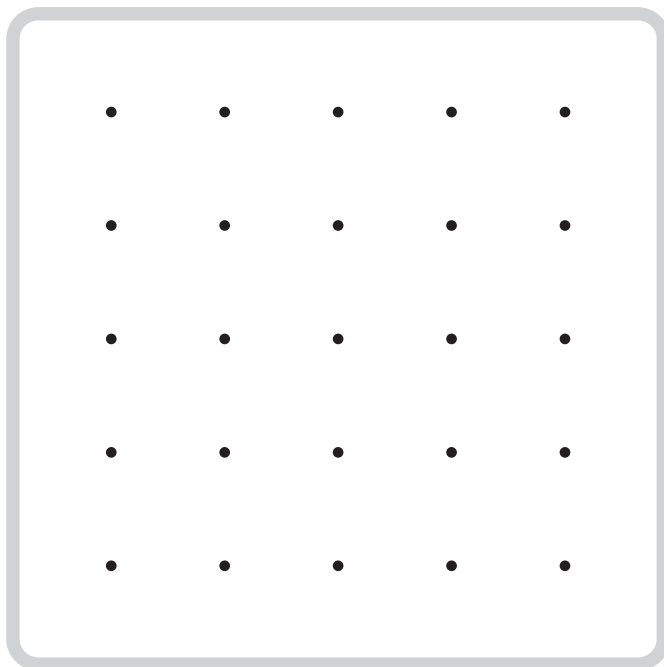
Kirsty draws this shape on a grid.



She turns her grid one quarter turn clockwise.

Draw the shape in its new position after the turn.

Use a ruler.



11

1 mark

12

These are the prices of cheese in a shop.



Cheddar cheese  
82p for 100 grams

Edam cheese  
66p for 100 grams

Cottage cheese  
45p for 100 grams

Mina buys **200g** of Cheddar cheese and **150g** of Edam cheese.

How much does she pay altogether?

Show your working

£

12ai

12aii

2 marks

Seb buys some cottage cheese for £1.35

How many grams of cottage cheese does he get?

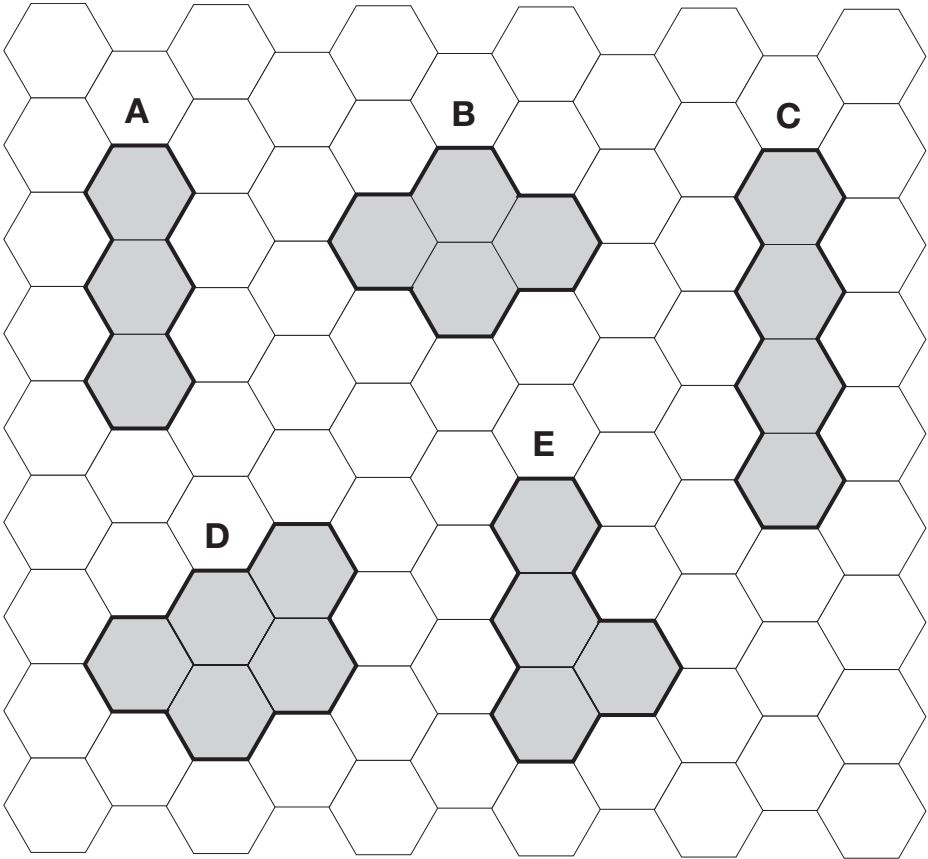
g

12b

1 mark

**13**

Here are five shapes on a regular grid.



Which shape has the longest **perimeter**?



\_\_\_\_\_

13a

1 mark

Which shape has only one **line of symmetry**?



\_\_\_\_\_

13b

1 mark

14

Calculate  $144 \div 6$ 

14

---

1 mark

15

These are all times on the same morning.

- A 7:56 am
- B quarter to eight
- C six minutes to eight
- D half past seven

Write the letters for the times in order, starting with the earliest.



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15

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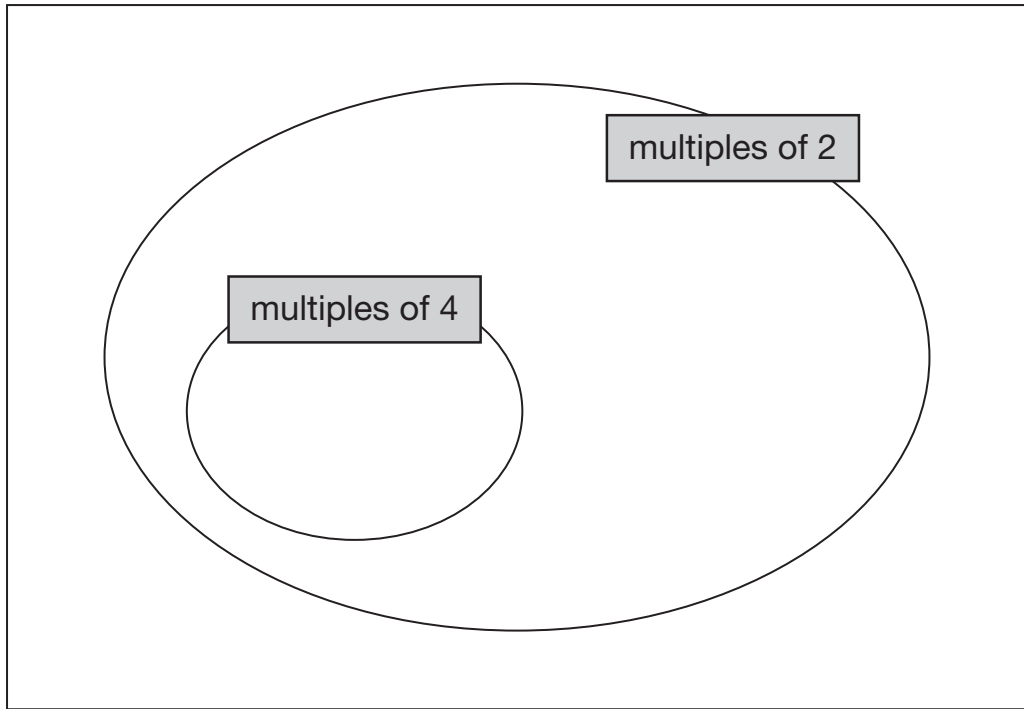
1 mark

**16**

Here is a Venn diagram for sorting numbers.

Write each number in its correct place on the diagram.

10    11    12    13



16i

16ii

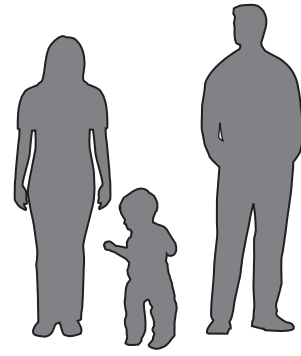
2 marks

**17**

Freddie is half as tall as his mother.

Freddie is one metre shorter than his father.

Freddie's father is 180 centimetres tall.



How many centimetres tall is Freddie's mother?


 cm

17  
1 mark

**18**

Calculate **560 × 28**



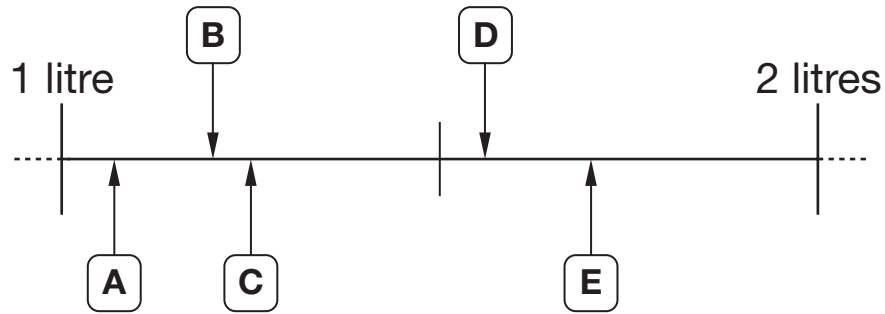
Show your working

18i  
18ii  
2 marks



19

Here are five letters on a scale.



Match each letter to one of the capacities in the list below.



1200 ml

1.7 l

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


1560 ml

1.07 l

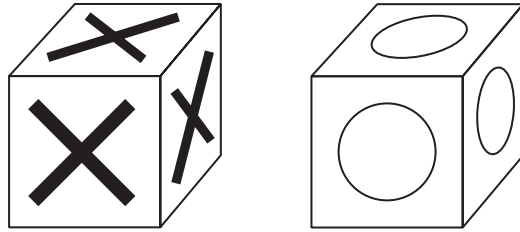
19i

19ii

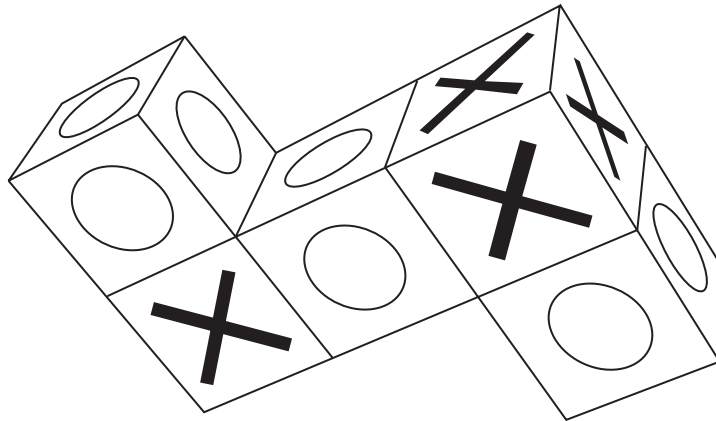
2 marks

20

Seb has some cubes with a cross on each face and some cubes with a circle on each face.



He sticks five cubes together to make this shape.



How many crosses and how many circles are there on the **outside** of the shape?



Number of crosses

20a

1 mark

Number of circles

20b

1 mark

21



Mina has **5 more** marbles than Kirsty.

Kirsty has **2 more** marbles than Seb.

Altogether they have **30** marbles.

How many marbles does each child have?



Show  
your  
working

Mina

Kirsty

Seb

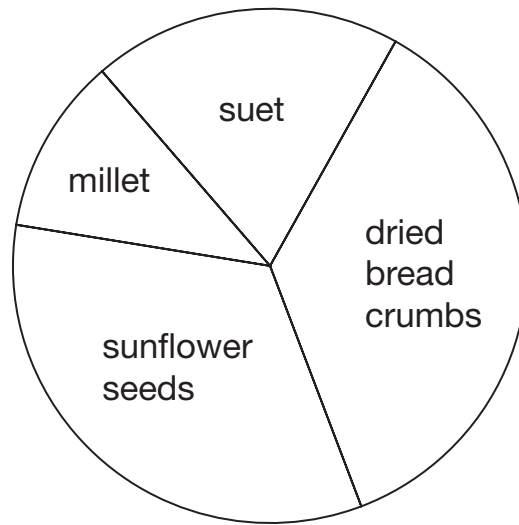
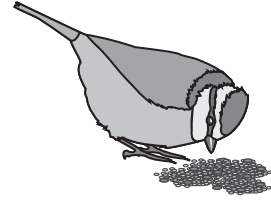
21i

21ii

2 marks

22

This pie chart shows the ingredients to make a food mixture for wild birds.



Estimate the **percentage** of mixture that is suet.


 %

22a

1 mark

Mina uses 100 grams of millet in the mixture.

Estimate how many grams of sunflower seeds she should use.


 g

22b

1 mark

23

Write these in order of size, starting with the smallest.

$\frac{3}{4}$

0.34

0.7

43%



smallest

23

1 mark

24

In a class, 18 of the children are girls.

A quarter of the children in the class are boys.

Altogether, how many children are there in the class?

Show  
your  
working

24i

24ii

2 marks

End of test



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STA/12/5588 (Pupil pack)

STA/12/5581 (Mark schemes pack)