MATHEMATICS

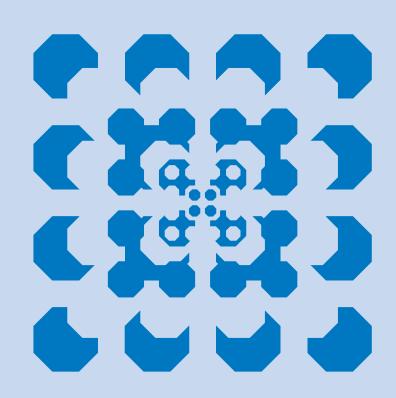
KEY STAGE 2 2006

TEST A

LEVELS 3-5

CALCULATOR NOT ALLOWED

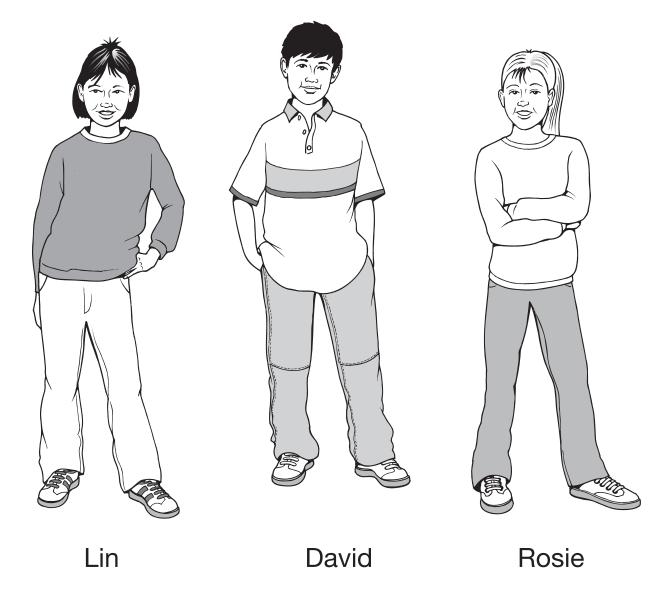
PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
21	
TOTAL	



First Name

Last Name

School



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.

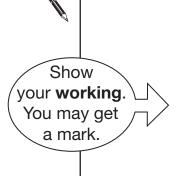
If you finish before the end, go back and check your work.

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.

901 1091 910 109 190

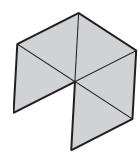
smallest

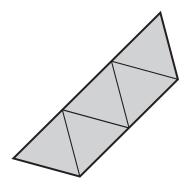
These two shapes are made from equilateral triangles.

Draw **one** line of symmetry on each shape.

Use a ruler.





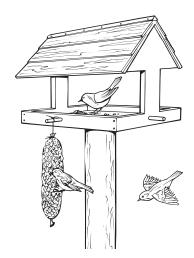


1 mark

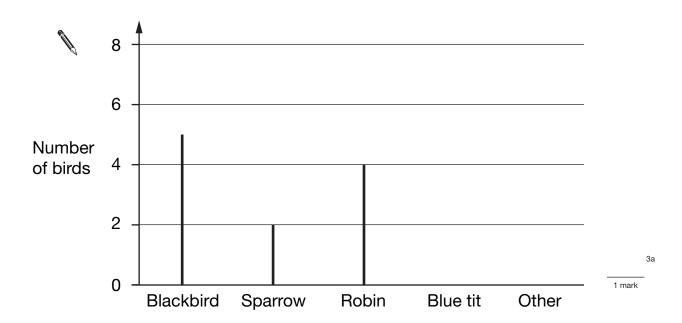
1 mark

Here are her results.

Blackbird	##
Sparrow	
Robin	
Blue tit	
Other	##1



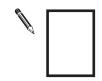
Draw two more lines to complete the graph.



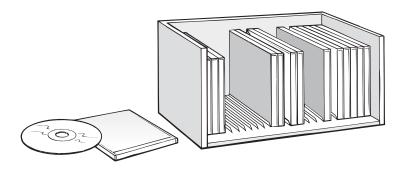
Rosie saw 20 birds altogether.

What **fraction** of the birds were blackbirds?





3b



One rack holds 25 CDs.

David has 83 CDs.

How many racks does he need to hold all his CDs?

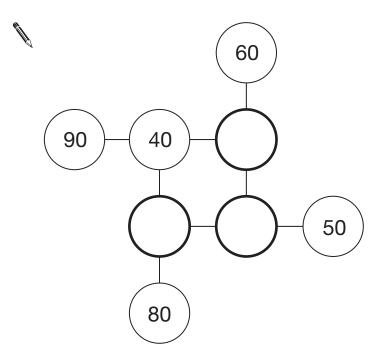


Lin has 6 racks full of CDs.

How many CDs does Lin have altogether?



Complete this diagram so that the three numbers in each line add up to 150

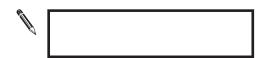


1 mark

A clock shows this time.



How long is it from this time until 5pm?



1 mark

What time was it quarter of an hour before the time on the clock?



1 mark

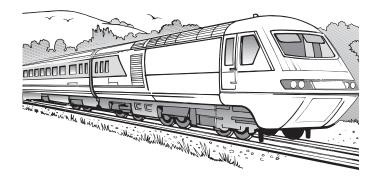
Lin needs to solve this problem.

'How many children are in the class?'

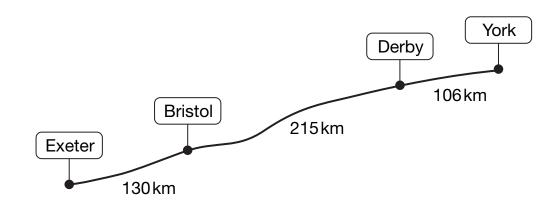


Tick (\checkmark) all the information that Lin needs to solve her problem.

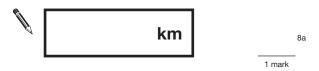
	There are 9 girls in the class.		
	5 girls in the class wear glasses.		
	There are twice as many boys as girls in the class.	1 mark	7a
'How m	o solve this problem. uch do two oranges and ole cost?'		
Tick (✓) all the	information that David needs to solve his problem.		
	An orange costs 5p more than an apple.		
	An apple costs 20p		
	David has £1	1 mark	7b
		_	



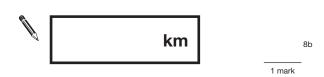
The diagram shows distances on a train journey from Exeter to York.



How many kilometres is it altogether from **Exeter** to **York**?

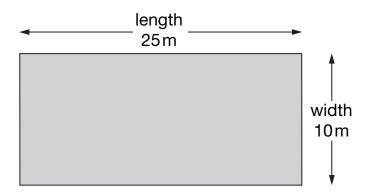


What is the distance from **Derby** to **York** rounded to the nearest 10km?





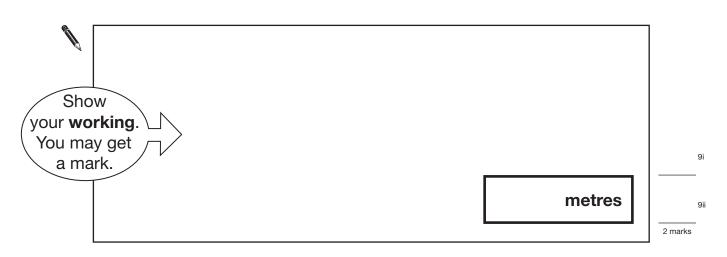
A rectangular swimming pool is 25 metres long and 10 metres wide.



David swims **5 lengths**.

Rosie swims 12 widths.

How much further does David swim than Rosie?

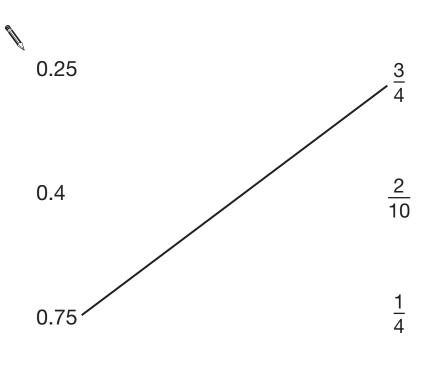


10

1 mark

Match each decimal number to its equivalent fraction. 11

One has been done for you.



0.2

11

1 mark

Five children have ticked this table to show on which days they are free to go out.

	Emma	David	Lin	Jack	Rosie
Mon		√	√		✓
Tue	✓		√	√	
Wed		√			√
Thu			✓	✓	√
Fri	√	√			√

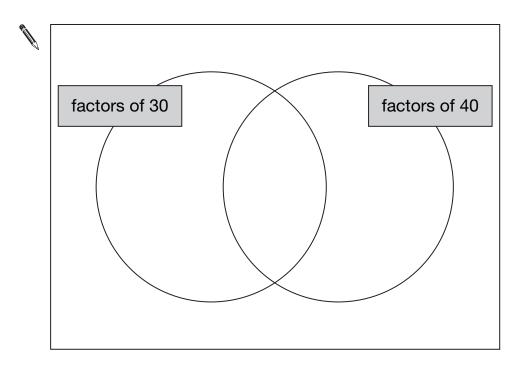
On how many days are more than two children free to go out?

	12a
	1 mark

On which days are Lin and Rosie both free to go out together?

	1 mark

5 6 7 8



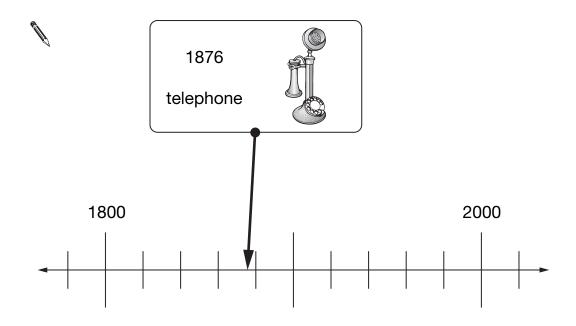
13

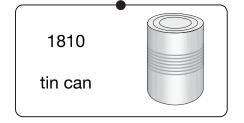
13i

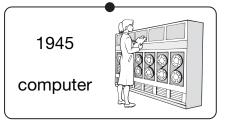
2 marks

Draw a line from each invention to the correct point on the time line.

One has been done for you.







1 mark

14a

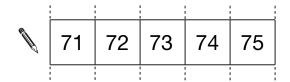
Here is a number chart.

Every third number in the chart has a circle on it.

1	2	3	4	5
6	7	8	\bigcirc	10
11	(12)	13	14	(15)
16	17	18	19	20
21)	22			

The chart continues in the same way. Here is another row in the chart.

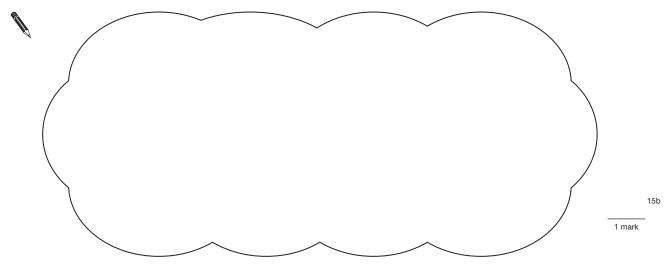
Draw the missing circles.



Will the number **1003** have a circle on it? Circle **Yes** or **No**.

Yes / No

Explain how you know.

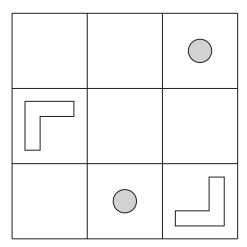


15

Total out of 4

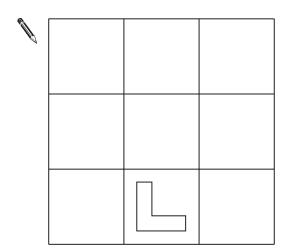
 $Sourced\ from\ SATs-Papers.co.uk$

https://www.SATs-Papers.co.uk



The diagram is turned to the new position below.

Draw the three missing shapes.

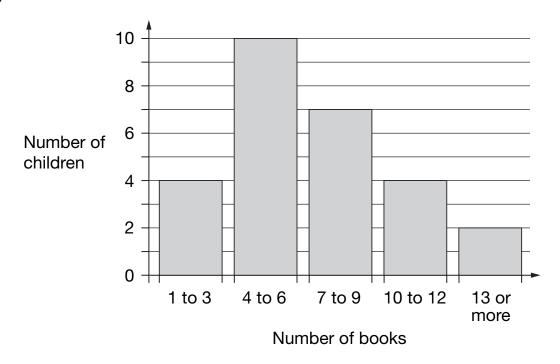


16i ___

16

2 marks

This chart shows the number of books some children read last month.



How many children altogether read more than 9 books?



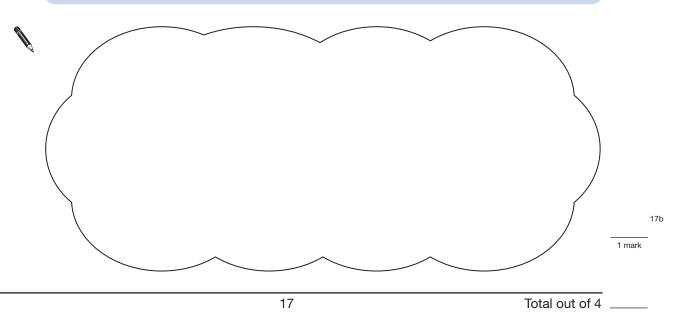
7 children read 4 books.

1 child read 5 books.

Lin says,

'That means 2 children read 6 books'.

Explain how she can work this out from the chart.



Sourced from SATs papers.co.uk

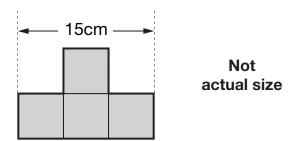
https://www.SATs-Papers.co.uk



1 mark

18

This shape is made from 4 shaded squares.



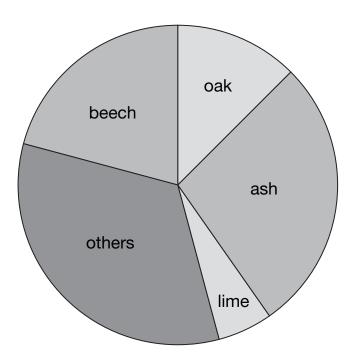
Calculate the perimeter of the shape.



Class 6 did a survey of the number of trees in a country park.



This pie chart shows their results.



Estimate the fraction of trees in the survey that are oak trees.



The children counted 60 ash trees.

Use the pie chart to estimate the **number** of **beech** trees they counted.

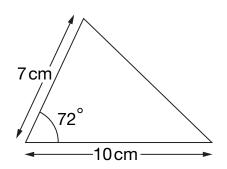


19

Total out of 5

Here is a sketch of a triangle.

It is not drawn to scale.



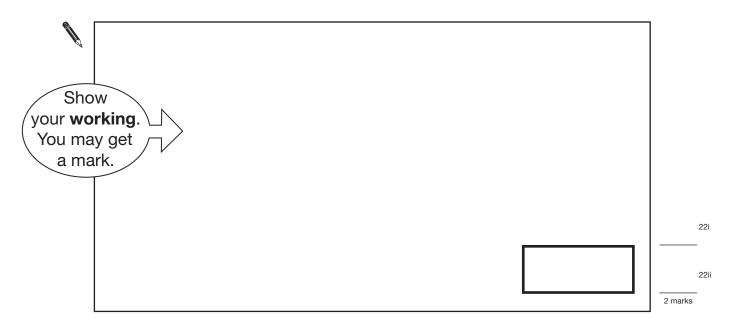
Draw the full-size triangle accurately below.

Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.

21i —

21



k stands for a whole number.

k + 7 is greater than 100

k - 7 is less than 90

Find **all** the numbers that k could be.

23ii

23i

2 marks

End of test

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