Mathematics

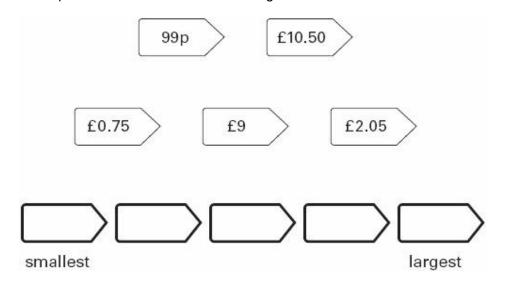
Test B

2005

40 min 40 marks

Calculator allowed

1. Write these prices in order from smallest to largest.

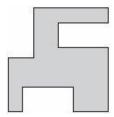


1 mark

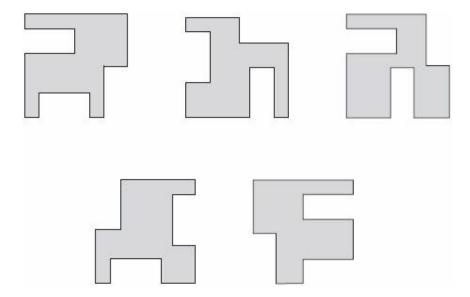
2. Circle the numbers that add up to 100

64 32 16 8 4 2 1

3. Here is a shape.



Put a tick () on the shape below which is the same as the one above.



1 mark

4. These are the prices of coconuts and bananas.



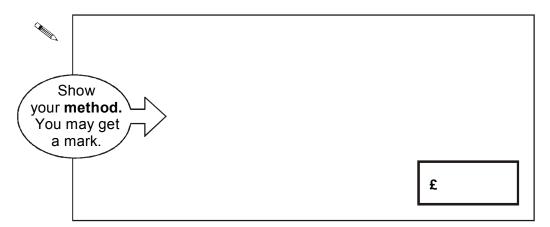
coconuts 78p each



bananas £1.20 for 1kg

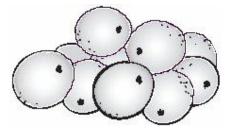
Josh buys one coconut and half a kilogram of bananas.

How much does he spend altogether?



2 marks

Oranges cost 25p each.

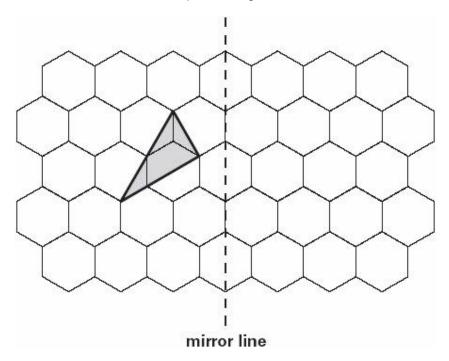


How many oranges can Josh buy for £1.50?



5. This grid is made of hexagons.

Draw the reflection of the shaded shape on the grid.



1 mark

6. Each missing digit in these calculations is 2, 5 or 7

Write in the missing digits.

You may use each digit more than once.

2 marks

7. This table shows information about four solid shapes.

Complete the table.

One has been done for you.



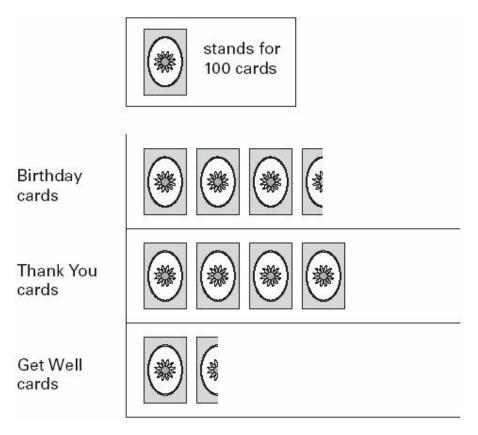
	number of flat surfaces	number of curved surfaces
sphere	0	1
cone		
cuboid		
cylinder		

2 marks

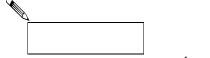
8. A shop sells different kinds of greeting cards.



This pictogram shows how many they sold in a week.

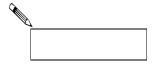


Estimate how many Birthday cards were sold.



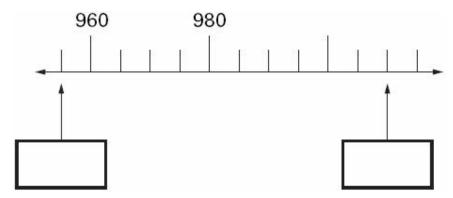
1 mark

Estimate how many more Thank You cards than Get Well cards were sold.



9. Here is part of a number line.

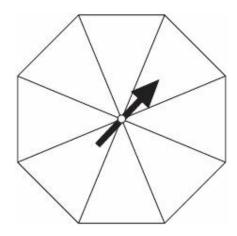
Write the two missing numbers in the boxes.



2 marks

10. Here is a spinner which is a regular octagon.

Write 1, 2 or 3 in each section of the spinner so that 1 and 2 are equally likely to come up and 3 is the least likely to come up.



2 marks

11. Josh thinks of a number.



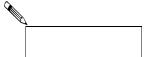
He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

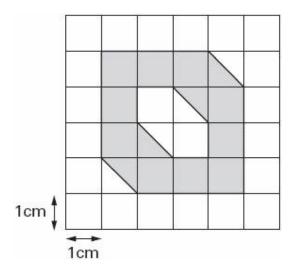
What number did Josh start with?



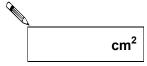
1 mark

12. Here is a 1cm square grid.

Some of the grid is shaded.



What is the area that is shaded?





Sapna and Robbie have some biscuits.

Altogether they have 14 biscuits.

Sapna has **2 more** biscuits than Robbie.

How many biscuits do Sapna and Robbie each have?

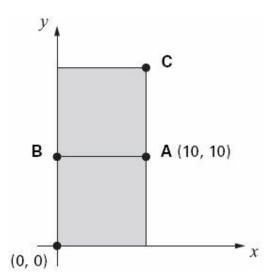


14. This pattern is made by turning a shape clockwise through 90° each time.

Draw the two missing triangles on the last shape.

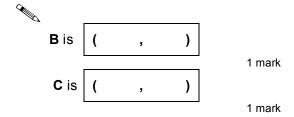


15. The diagram shows two identical squares.



A is the point (10,10)

What are the coordinates of **B** and **C**?



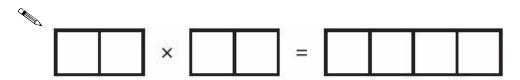
16. Write all the factors of 30 which are **also** factors of 20

	2 marks

17. 17 multiplied by itself gives a **3-digit** answer.

1	7	×	1	7	=	2	8	9

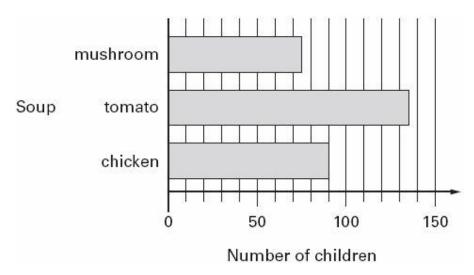
What is the **smallest** 2-digit number that can be multiplied by itself to give a **4-digit** answer?



1 mark

18. All the children at Park School chose their favourite soup.

The graph shows the results.



How many more children chose chicken soup than mushroom soup?





Robbie says,

'More than half of the children chose tomato soup'.

Is he correct? Circle Yes or No

Circle resultino.	
Yes / No	
Explain how you can tell from the graph.	
	1 mark

19.

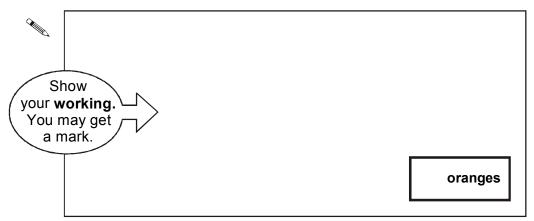


Sapna makes a fruit salad using bananas, oranges and apples.

For every one banana, she uses 2 oranges and 3 apples.

Sapna uses 24 fruits.

How many oranges does she use?



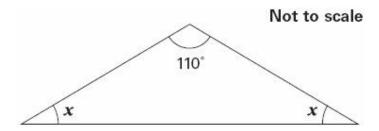
2 marks

20. 7.4 8.1 9.4 10

Which two of these numbers, when multiplied together, have the answer closest to 70?

and

21. Here is an isosceles triangle.



Calculate the size of angle x.

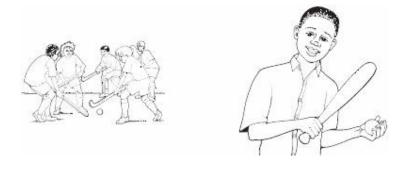
Do **not** use a protractor (angle measurer).



1 mark

22. On Monday all the children at Grange School each play one sport.

They choose either hockey or rounders.



There are **103** children altogether in the school.

27 girls choose hockey.

Write all this information in the table.

Then complete the table.



7			
	hockey	rounders	Total
boys	22		
girls			53
Total			

2 marks

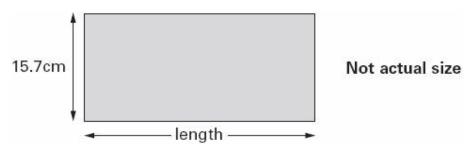
23. Write in the missing numbers.



1 mark

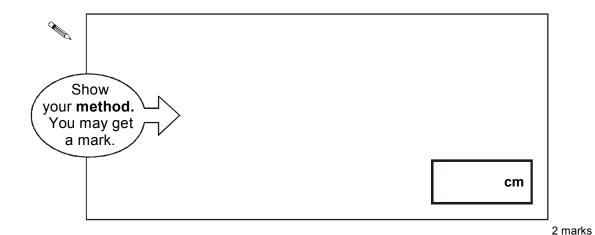
1 mark

24. Here is a rectangle with a width of 15.7 centimetres.

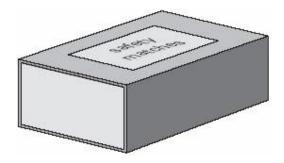


The **perimeter** of this rectangle is 85 centimetres.

Calculate the length of the rectangle.



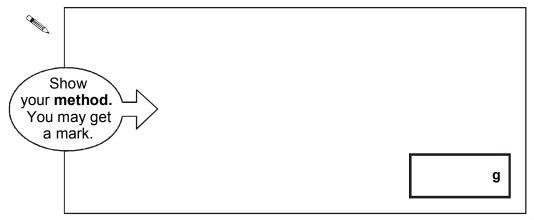
25.



A box contains 220 matches and weighs 45 grams.

The empty box weighs 12 grams.

Calculate the weight of **one** match.



2 marks