Ma

KEY STAGE

Mathematics

3-5

# 500

# Paper 1

# Calculator not allowed

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				



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## Instructions

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

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.

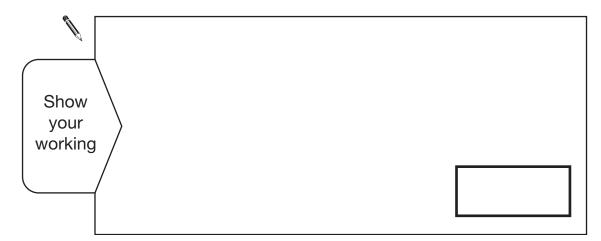
## Follow the instructions for each question carefully.



This shows where you need to put the answer.

If you need to do working out, you can use any white space on a page. Do not write over any barcode.

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



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



Megan likes honey, but not jam.

Alfie likes honey and jam.

Chen does not like honey or jam.

Donna only likes jam.

Write the children's names in the correct parts of the sorting diagram.

	likes honey	does <b>not</b> like honey	
likes jam			
does <b>not</b> like jam			



2 Circle the number closest to 500

525

491

511

408

550

1 mark

3 Calculate **735 + 2669** 



1 mark

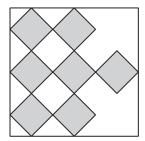
D O O O 6 O A O 5 2 4

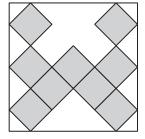
These three square tiles have symmetrical patterns on them.

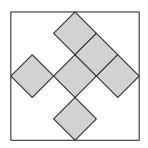
Draw the line of symmetry on each tile.

Use a ruler.













Liam hires a bike.

He has to return it by 3 pm.

The time is 2:25 pm.



How many minutes has he got left?



1 mark

Amy hires a bike for 45 minutes.

She takes the bike out at 3:30 pm.

At what time must she return the bike?

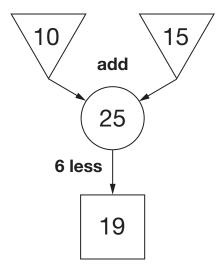


;

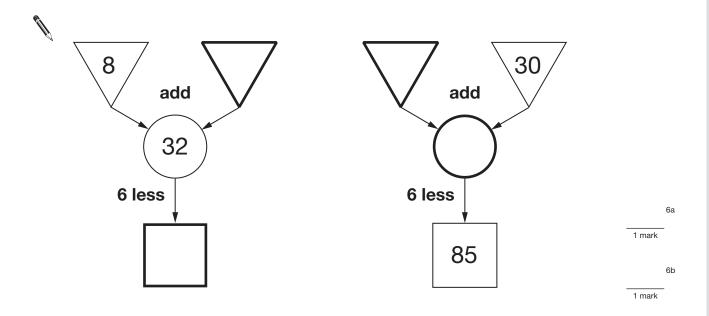
1 mark

In this diagram, the numbers in the triangles add together to make the number in the circle.

The number in the square is 6 less than the number in the circle.



Write the four missing numbers in these diagrams.





The numbers in this sequence increase by 30 each time.

20

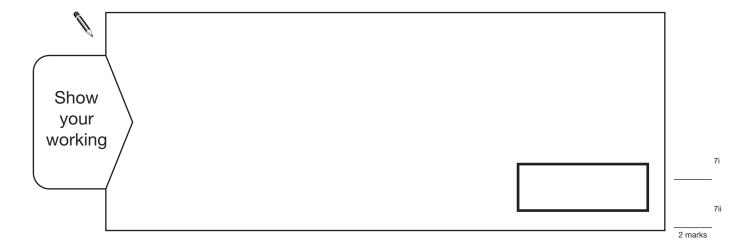
50

80

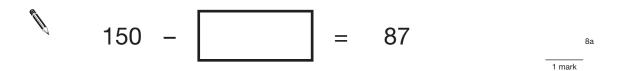
110 ...

The sequence continues in the same way.

Which number in the sequence will be closest to 300?



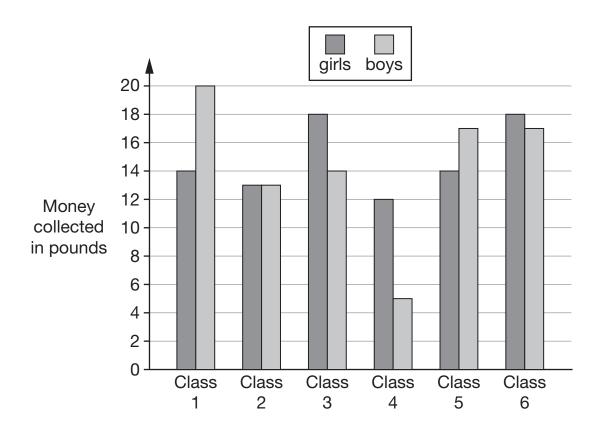
Write the missing numbers.



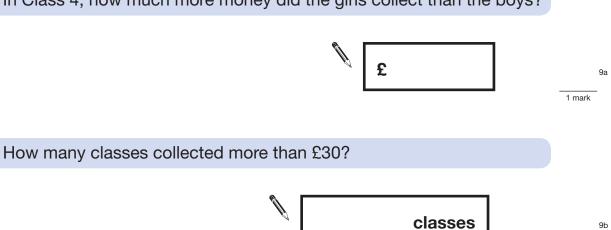


Six classes at Winward Primary School collected some money.

The chart shows how much money the boys and girls collected.



In Class 4, how much more money did the girls collect than the boys?





1 mark

A shop sells pairs of socks.







**1 pair** for £5.45

**3 pairs** for £7.50

**5 pairs** for £8.50

Kirsty buys 1 pair of knee socks and 3 pairs of ankle socks.

She pays with a £20 note.

How much change does she get?



Amy spends £25.50 on trainer socks.

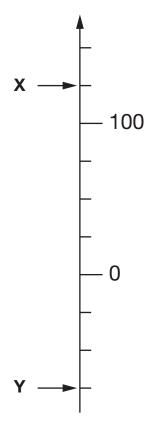
How many **pairs** of trainer socks does she get?





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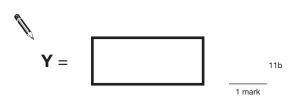
Here is part of a number line.



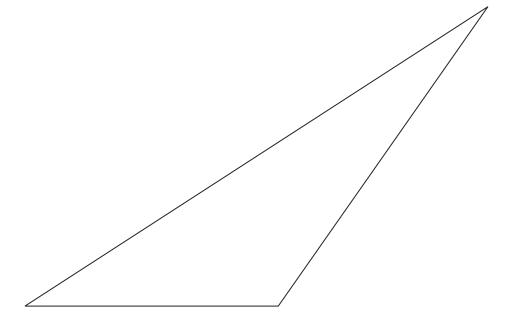
What is the value of **X**?

**X** =

What is the value of **Y**?







Measure the length of the shortest side of this triangle in millimetres.



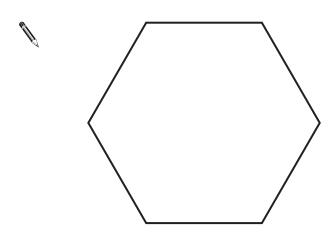
Measure the size of the largest angle in this triangle.





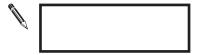
Here is a hexagon.

Draw **two** straight lines across the hexagon to make two triangles and two quadrilaterals.



13

14 Calculate 16.72 × 5

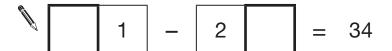


1 mark

14

D O O O O O A O 1 5 2 4

Write the two missing digits.



1 mark

Liam has five coins.

Three of the coins add up to 30p.

Three of the coins add up to  $\mathbf{40p}$ .

All five coins add up to £1

What are the coins that Liam has?



р







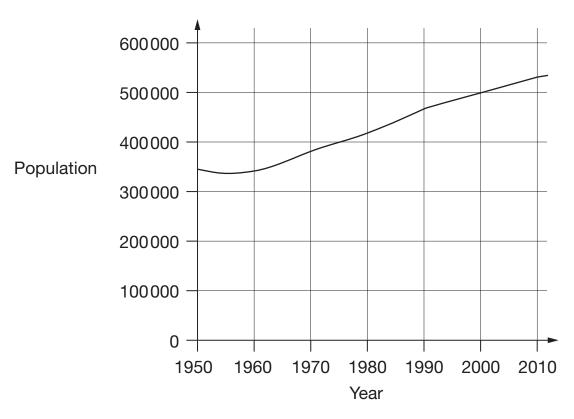


16

1 mark



This chart shows the population of Cornwall from 1950 to 2010.

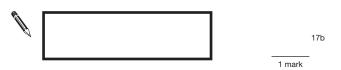


Look at the chart.

In which year did the population first reach 400000?



How much did the population increase from 1950 to 2000?



What was the population of Cornwall in 2010?





18 Calculate **55% of 640** 



This is Kirsty's recipe for breakfast cereal.

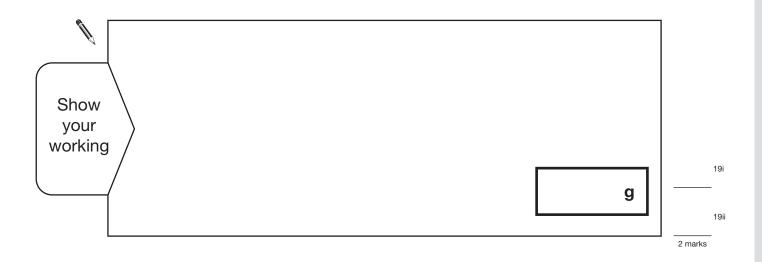
50 grams of oats

30 grams of raisins

40 grams of nuts



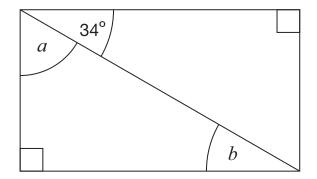
If she uses 125 grams of oats, how many grams of raisins does she need?





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Here is a rectangle.



Not to scale

Calculate the size of angles  $\boldsymbol{a}$  and  $\boldsymbol{b}$ .

Do not measure the angles.

$$a =$$

$$b =$$

20b \_\_\_\_\_1 mark

1 mark

20a

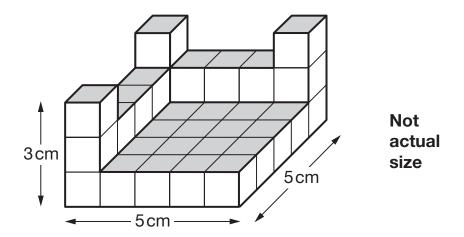
The **difference** between two numbers is 2

When each number is rounded to the nearest hundred, the difference between them is 100

Write what the two numbers could be.



This shape is made of wooden centimetre cubes.



How many **more** centimetre cubes are needed to make it into a solid cuboid 3 cm tall, 5 cm long and 5 cm wide?



22

1 mark

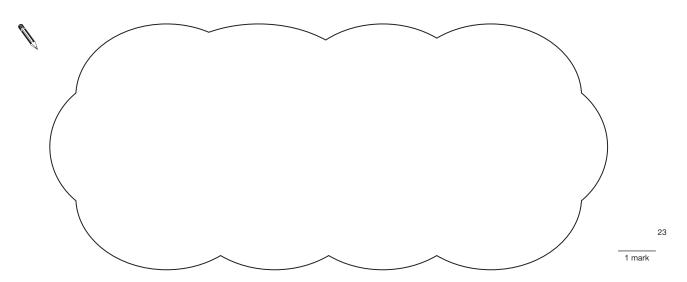




'When you multiply two numbers together, the answer is always greater than either of the numbers you started with.'

Is Alfie correct? Circle **Yes** or **No**. Yes / No

# Explain how you know.



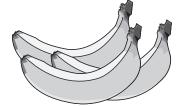


A shop sells fruit.

Chen buys 2 apples and 3 bananas.

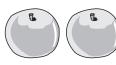
He pays £2.35





Megan buys 2 apples and 1 banana.

She pays £1.25





### How much does one banana cost?





# [END OF TEST]

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