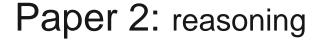
Mathematics





First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher				

SAMPLE

Instructions

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

Questions and answers

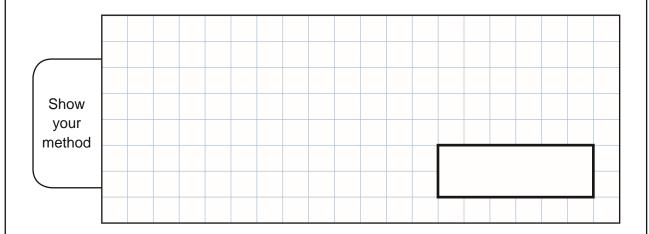
You have 50 minutes to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:



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

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 endgo back and check your work.

Marks

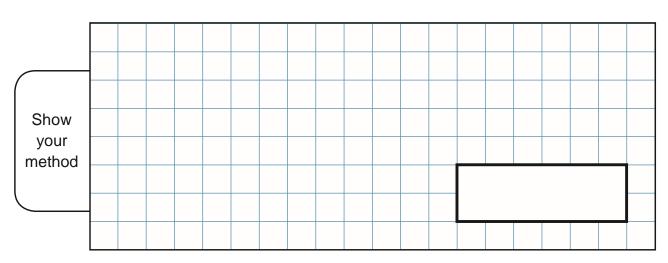
The number under each line at the side of the page tells you the maximum number of marks for each question.

1. 67 children attend chess club.

26 different children attend maths club.

Nobody attends both clubs.

There are 600 children in the school.



2 marks

How many children do not attend either club?

Match the numbers to their word form.

2.

One has been done for you.

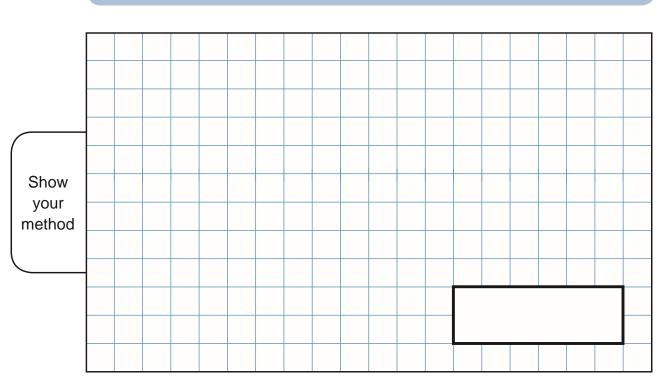
19,300	One thousand, nine hundred and thirty
1,930	One hundred and nine
1,090	Nineteen thousand, three hundred
190	One hundred and ninety
109	One thousand and ninety

2 marks

3. In a fruit bowl, there are 2 apples for every 5 bananas.



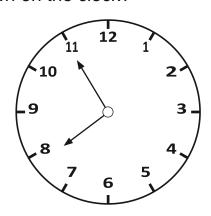
There are 8 apples in the fruit bowl.



2 marks

How many pieces of fruit are there in the fruit bowl in total?

4. What time is shown on the clock?



Circle all the possible answers.

08:55

07:55

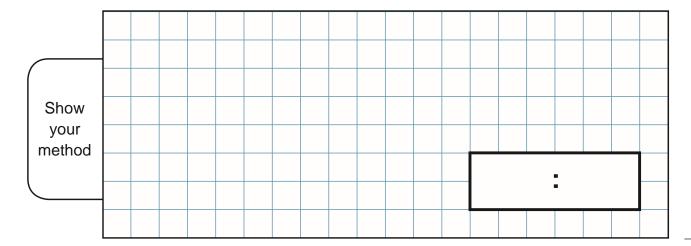
08:11

19:55

ark

5. John leaves his house at 13:56
His walk to school takes 35 minutes.

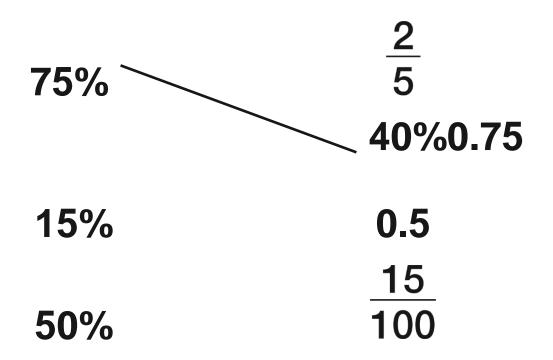
What time does John arrive at school?



1 mark

6. Match each percentage to the correct equivalent.

The first one has been done for you.



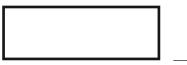
2 marks

What is 10 more than $4\frac{2}{3}$?

ark**8.**

How many thirds are there in $\frac{2}{3}$?





1 mark

9. Filip says there are double the amount of sixths than thirds in $4\frac{2}{3}$?

ls

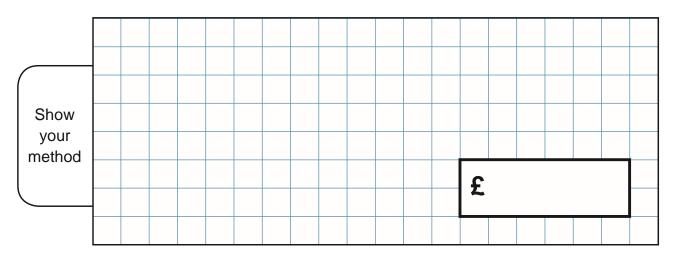
Filip correct?

Explain your answer.

10. A soft toy costs £4.50

A suitcase costs ten times as much.

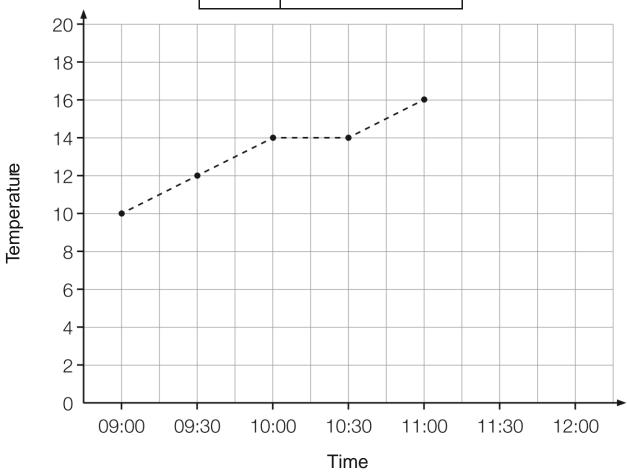
How much does the soft toy and suitcase cost in total?



2 marks

11. Use a ruler to complete this line graph.

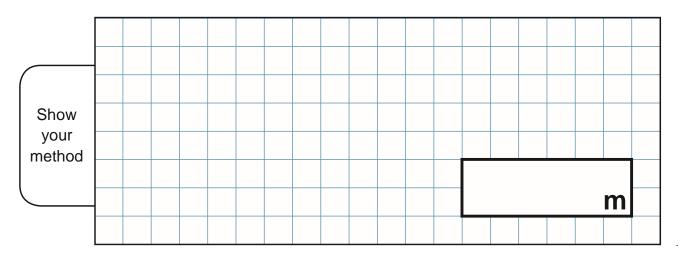
Time	Temperature (°C)
09:00	10
09:30	12
10:00	14
10:30	14
11:00	16
11:30	17
12:00	18



12. Morgan is running a 10 kilometre race.

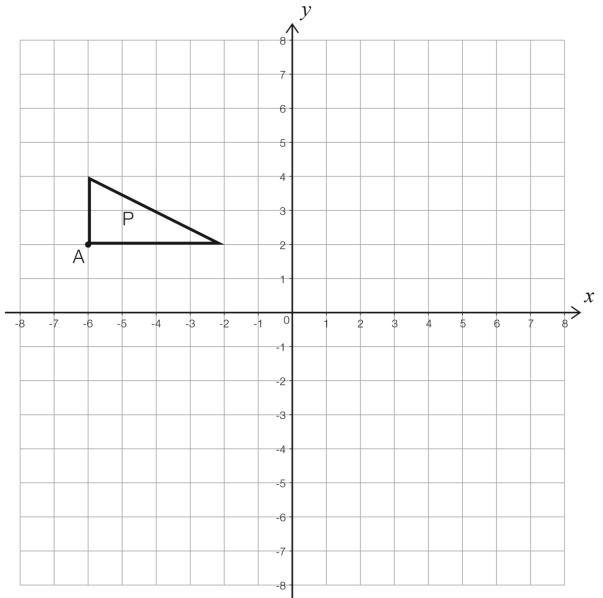
So far, she has run 1,340 metres.

How far does she have left to run?



1 mark

13.



1 mark

Triangle P is reflected in the x-axis

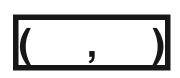
Draw the reflection on the grid.

Label your shape Q.

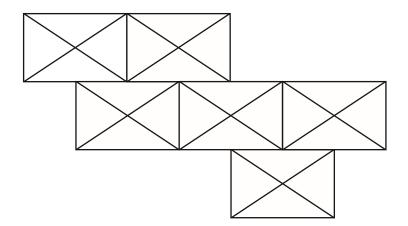
Triangle P is now translated 7 units right and 3 units up.

What are the co-ordinates of the vertex labelled A after the translation?

1 mark



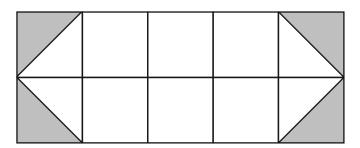
Shade $\frac{2}{3}$ of the shape below.



1 mark

15. Sam says,

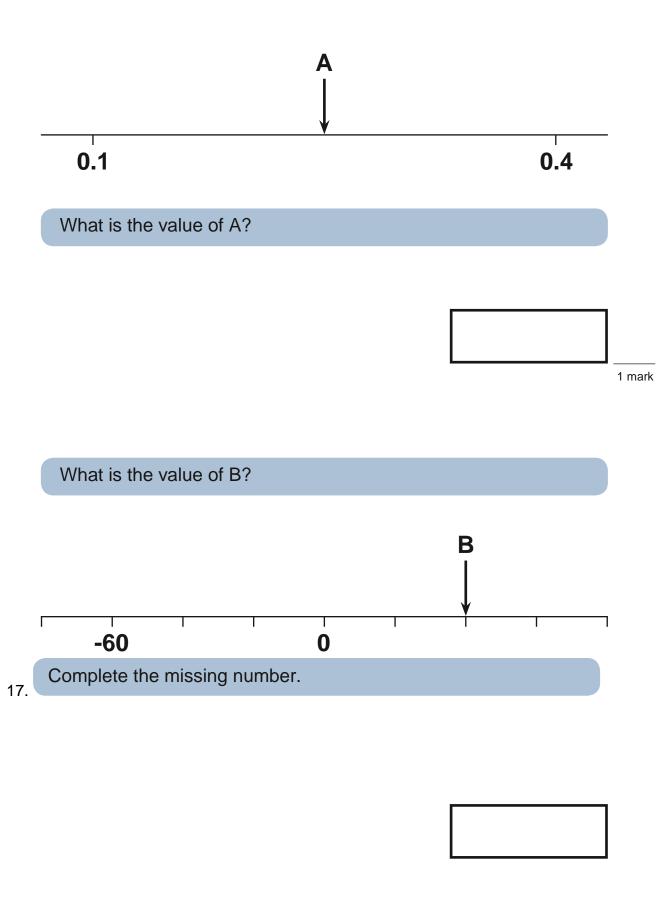
"20% of the shape is shaded."

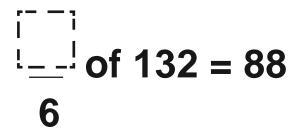


Do you agree with Sam?

Explain your answer.

16. A is half way between 0.1 and 0.4





1 mark

Explain all the steps in your working.

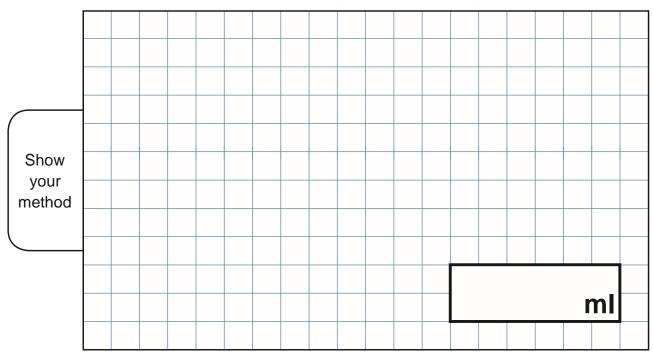
1 mark



A bottled drink is made up of 120 ml of juice and the rest is water.

Water makes up $\frac{3}{5}$ of the drink.

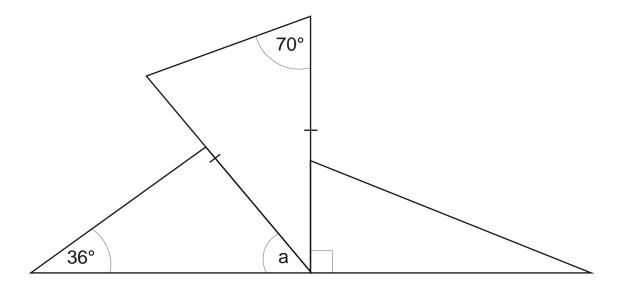
How much water would be needed for 6 bottles of drink?

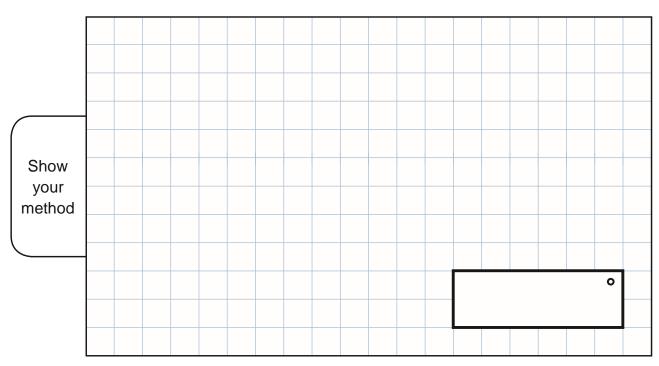


2 marks

19. The shape below is made of an isosceles triangle, a scalene triangle and a right-angled triangle.

Calculate the size of angle a.



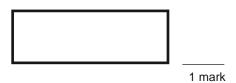


2 marks

20. Ajay has these four digit cards.

2 5 7

What is the mean of Ajay's cards?

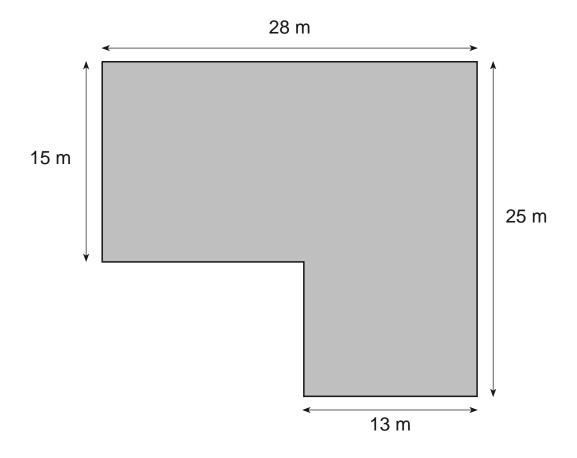


21. Ajay removes one of the cards. The mean of the new cards is 4 Which card did he remove?

Explain your answer.

1 mark

22. The diagram shows a field.



5 sheep need 350 m^2 of field.

Is the field big enough for 10 sheep?

Yes No

You must show all your working out.

23.

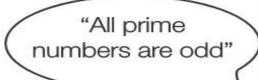
$$2y + 3x = 12$$

If x = 2, find the value of y



2 marks

24. Ben says,





Do you agree?

Yes

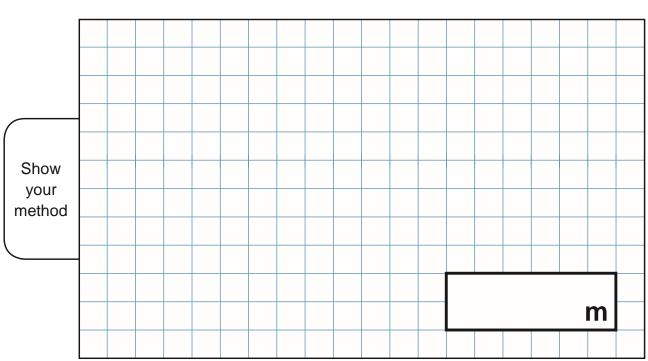
No

Explain your answer.

25. Sam buys 20 metres of fabric.

He uses $\frac{3}{10}$ of it to make a dress.

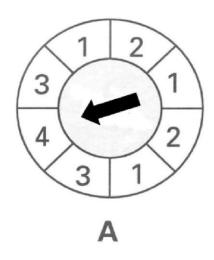
He uses $2\frac{1}{3}$ metres to make some trousers.

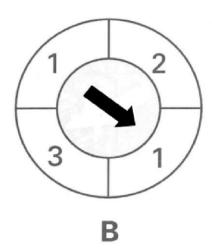


3 marks

How many metres does he have left?

26. Lee has two spinners





A. What is the probability of spinning a 4 on spinner A?



B. On which spinner is he more likely to get a 1?

Explain your answer.