

Mathematics

Third Practice Test 1 Levels 3-5 Calculator **not** allowed

Please read this page, but do not open your booklet until your teacher tells you to start. Write your name and the name of your school in the spaces below.

First	name	

Last name

School

Remember

- The test is 1 hour long.
- You **must not** use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler and tracing paper (optional).
- This test starts with easier questions.
- Try to answer all the questions.
- Write all your answers and working on the test paper do not use any rough paper. Marks may be awarded for working.
- Check your work carefully.
- · Ask your teacher if you are not sure what to do.

Instructions

Answers

This means write down your answer or show your working and write down your answer.

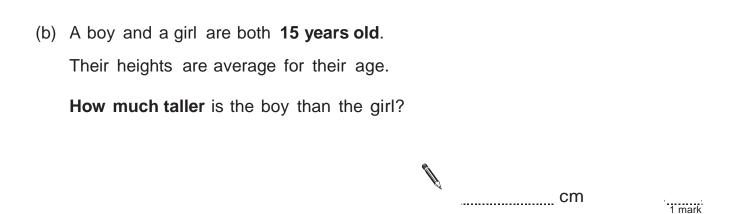
Calculators



You **must not** use a calculator to answer any question in this test.

- Average height Average height Age (years) for girls (cm) for **boys** (cm)
- **1.** The table shows the average heights of boys and girls of different ages.

(a) What is the average height for girls aged 9 years old?

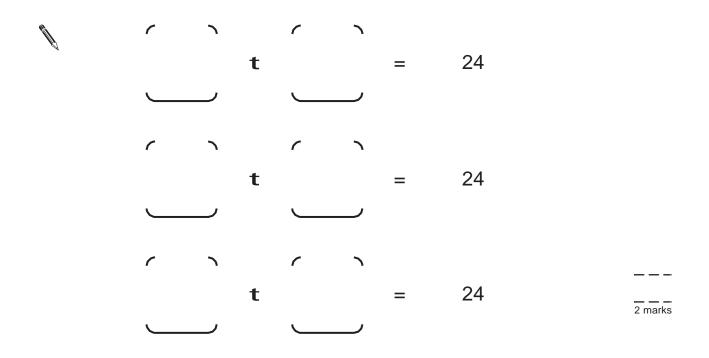


_____ cm

1 mark

2. Write numbers in the boxes to make correct calculations.

You must use different numbers each time.



 (a) Write a number that is bigger than one thousand but smaller than one thousand one hundred.

Write the number in figures not words.

(b) Now write a **decimal** number that is **bigger than zero** but **smaller than one**.

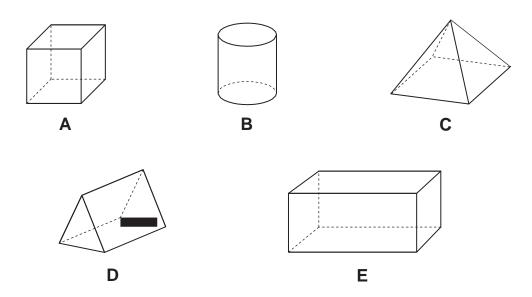


1 mark

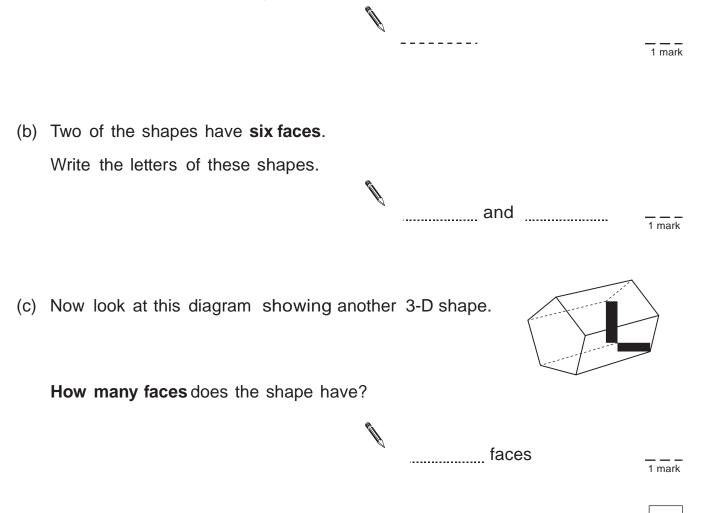
Look at the diagrams showing 3-D shapes.

4.

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(a) One of the shapes has one square face and four triangular faces.Write the letter of this shape.

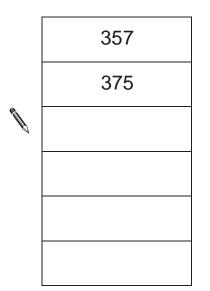


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5. (a) You can make six different numbers using these three digit cards:



Complete the list to show the six different numbers.



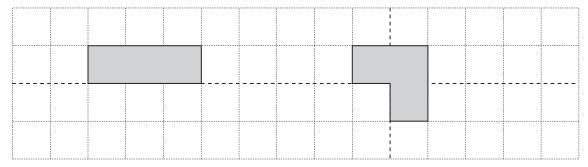
1 mark

(b) From the list, write down the smallest number and the biggest number, then add them together.

1 mark

6. Without reflections or rotations,

three squares can join side -to -side to make only two different shapes.

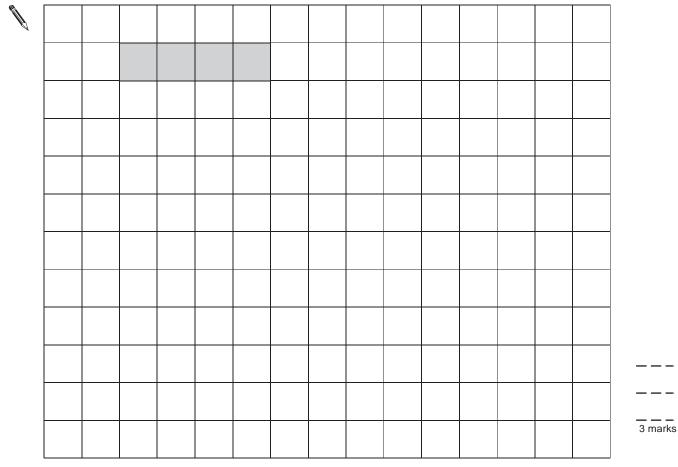


Square grid

Without reflections or rotations,

four squares can join side -to -side to make only five different shapes.

Complete the five different shapes on the grid below. The first one is done for you.



Square grid

Here are the prices of food and drinks in a café. 7.

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Food		Dri	inks
Pizza	£1.40	Теа	65p
Burger	95p	Coffee	90p
Sandwich	£1.20	Cola	80p
Toast	90p	Juice	£1.00
•			ر

(a) Sally wants to buy **one** item of **food** and **one drink**. What is the least amount of money she can pay?

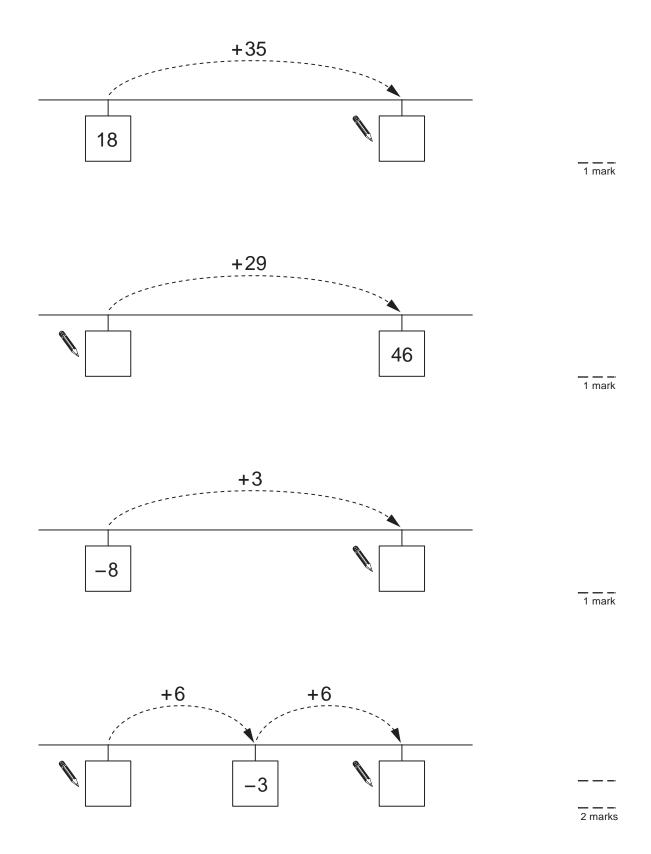
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£	<u> </u>
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(b) Lee buys **one** item of **food** and **one drink**. He pays with a £5 note and gets £2.60 change. What did Lee buy?

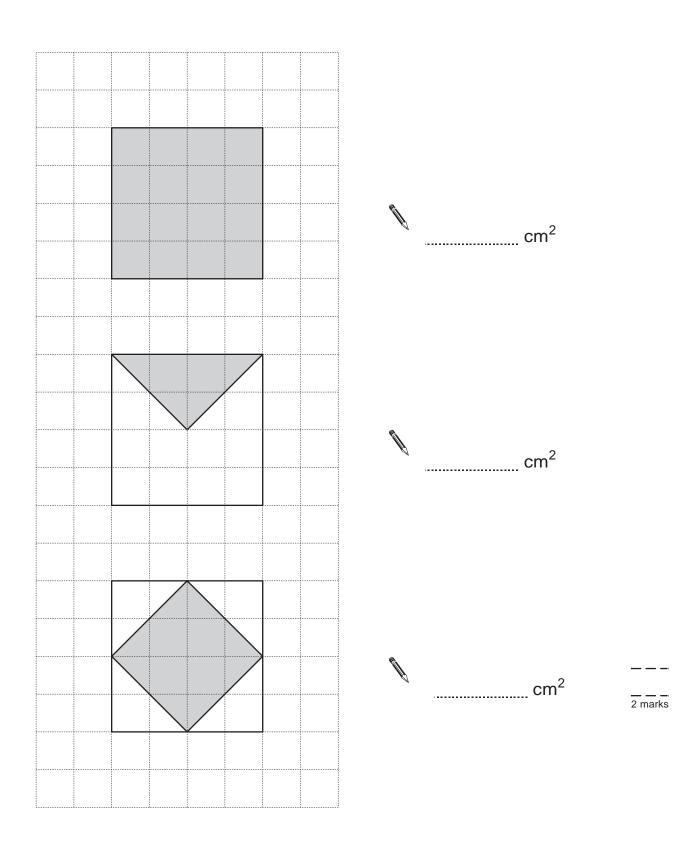
2 marks

8. Write the missing numbers on the number lines.

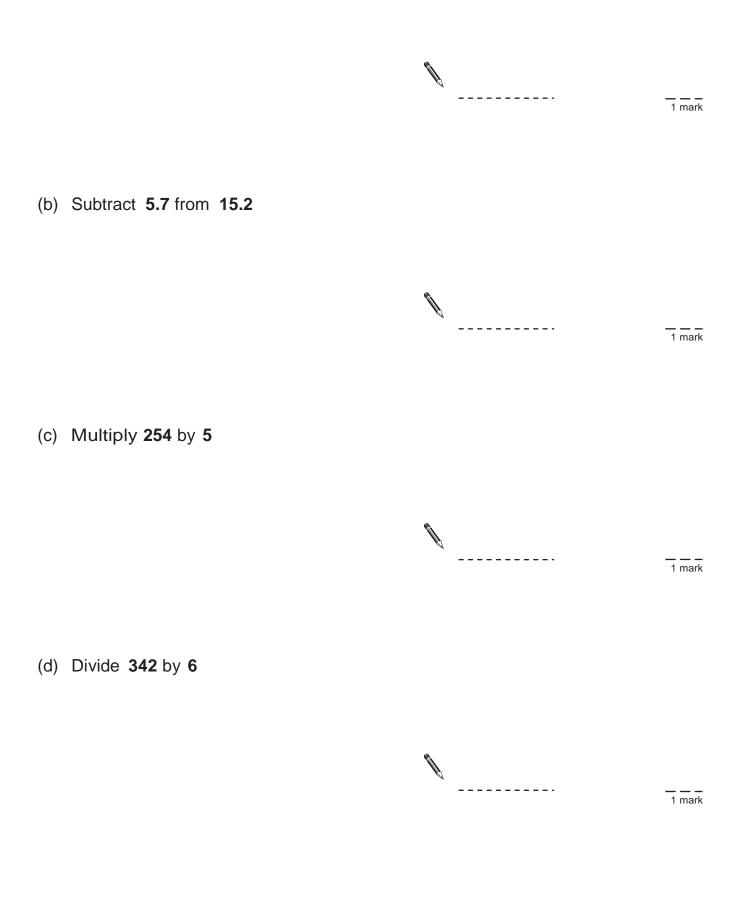


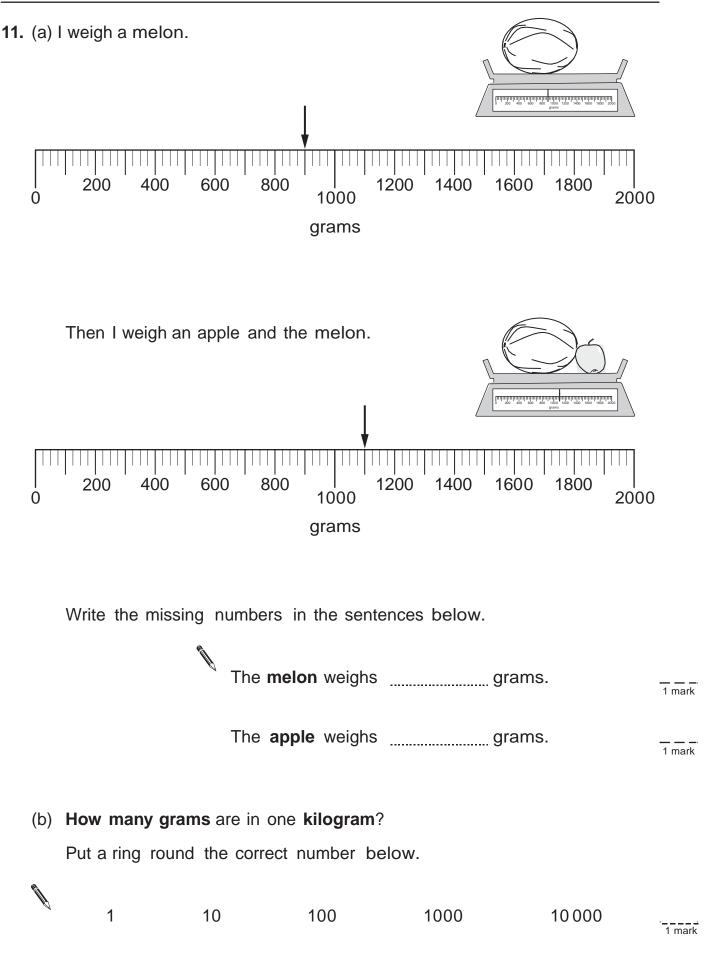
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9. Look at the diagrams on the centimetre square grid.Work out the area that is shaded on each diagram.



10. (a) Add together 3.7 and 6.5





12. (a) There are two children in the Smith family.The range of their ages is exactly 7 years.

What could the ages of the two children be? Give an example.

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Ä	and	

(b) There are two children in the Patel family.They are twins of the same age.

What is the range of their ages?

_____years

1 mark

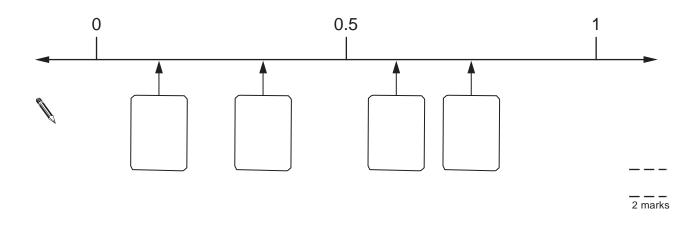
1 mark

13. Here are four fractions.



Look at the number line below.

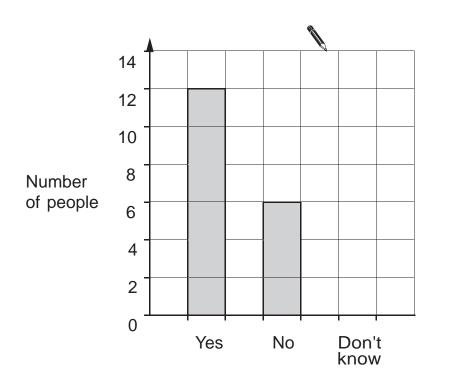
Write each fraction in the correct box.



14. (a) Jackie asked 27 people:

'Do you like school dinners?'

The bar chart shows her results for 'Yes' and 'No'. Complete the bar chart to show her result for 'Don't know'.



1 mark

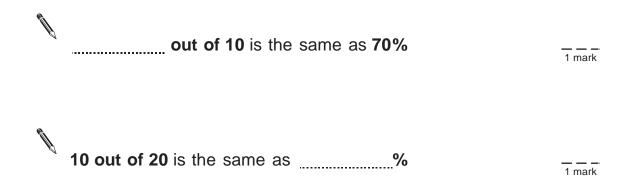
(b) This pictogram also shows her results for 'Yes' and 'No'.Complete the pictogram to show her result for 'Don't know'.

Yes	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$
No	
Don't know	

1 mark

1 mark

15. (a) Complete the sentences.



(b) Complete the sentence.

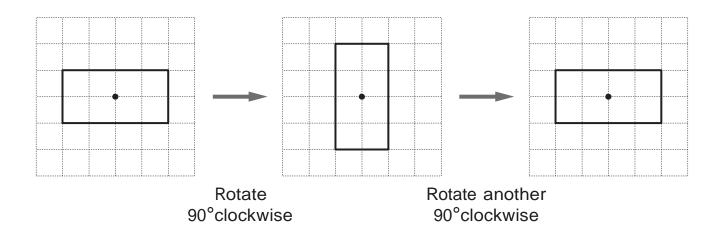
out of _____ is the same as **5%**

Now complete the sentence using different numbers.

out of _____ is the same as 5%

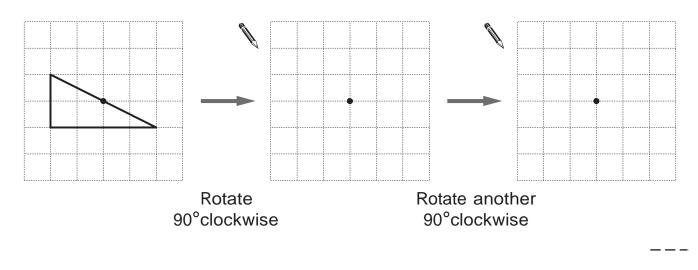
16. The shapes below are drawn on square grids.

The diagrams show a rectangle that is rotated, then rotated again. The centre of rotation is marked •



Complete the diagrams below to show the triangle when it is rotated, then rotated again.

The centre of rotation is marked •



2 marks

7

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17. I am thinking of a number.

My number **multiplied by 15** is **315** My number **multiplied by 17** is **357**

What is my number?

2 marks

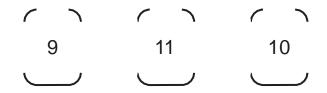
18. Complete the statements below.

Ø	When <i>x</i> is	<u>8</u> , <u>4</u> <i>x</i> is <u></u>	1 mark
	When <i>x</i> is	, , <u>4</u> <i>x</i> is <u>48</u>	 1 mark
	When <i>x</i> is	<u>8</u> , is <u>48</u>	1 mark

1 mark

1 mark

19. (a) Look at these three numbers.



Show that the mean of the three numbers is 10

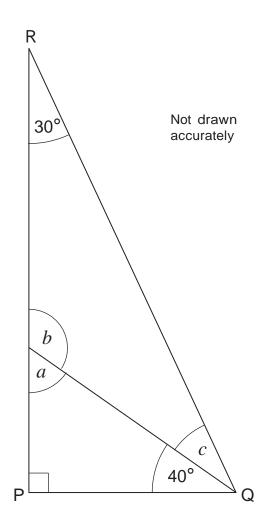
Explain why the **median** of the three numbers is **10**

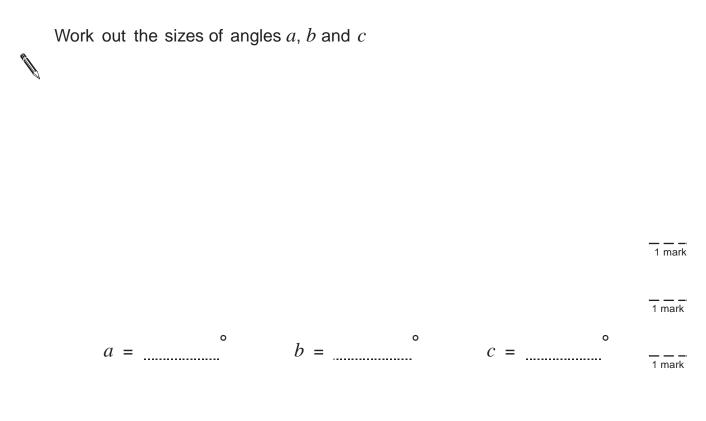
(b) Four numbers have a mean of 10 and a median of 10, but**none** of the numbers is 10

What could the four numbers be? Give an example.



20. The diagram shows triangle PQR.





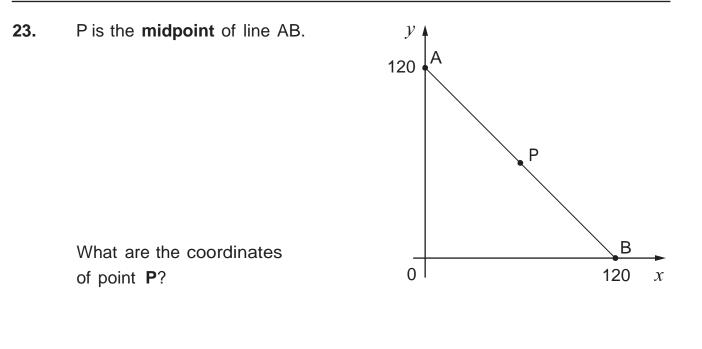
21. Solve these equations.

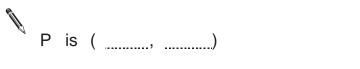
3y + 1 = 16 $y = \dots \qquad 1 \text{ mark}$ 18 = 4k + 6 $k = \dots \qquad 1 \text{ mark}$

22. Work out

374 **t** 23

______2 _____2 marks





END OF TEST