Ma

KEY STAGE

3-5

Mathematics tests

Test A

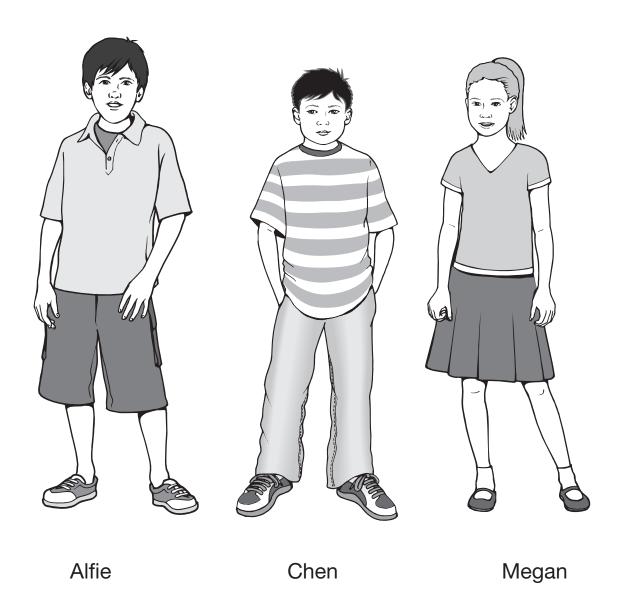
Calculator **not** allowed

First name					
Middle name					
Last name					
Date of birth	Day	1	Month	Year	
School name					
DfE number					

For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
Total	

These three children appear in some of the questions in this test.



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.

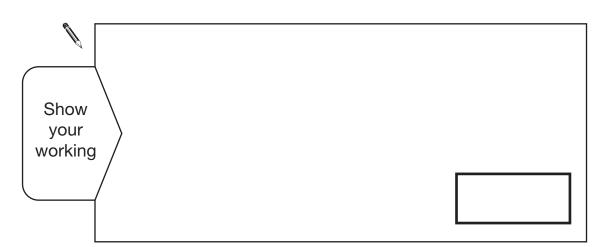
Follow the instructions for each question carefully.



This shows where you need to put the answer.

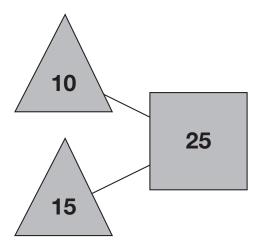
If you need to do working out, you can use any space on a page.

Some questions have an answer box like this:



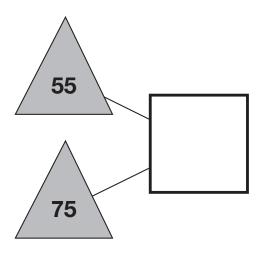
For these questions you may get a mark for showing your working.

The numbers in the two triangles add up to the number in the square.



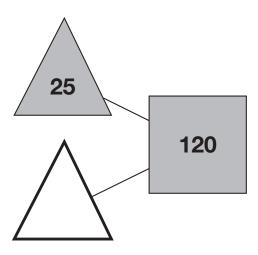
Using the **same** rule, write in the missing numbers.



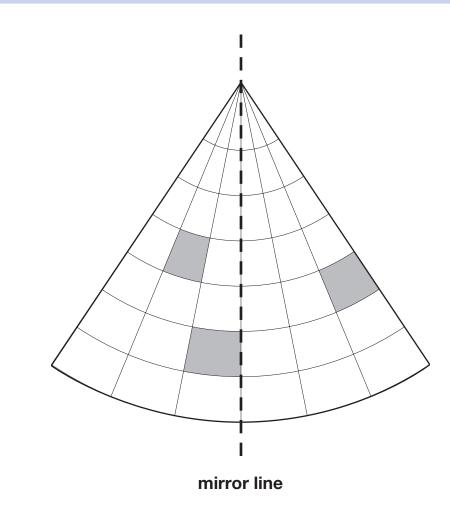


1a

1 mark



1b



Total out of 3

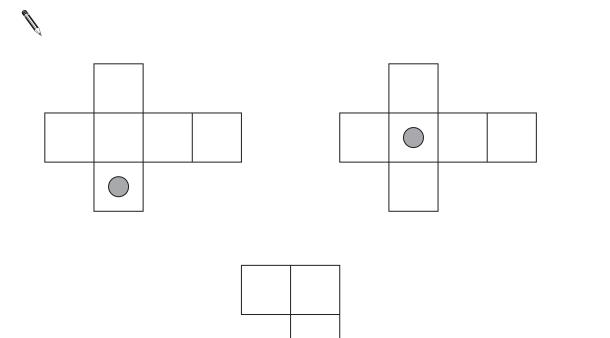
1 mark

The number **20** goes in **two** of the squares of this multiplication grid.

Tick (✓) the two squares where 20 goes.

W.	×	1	2	3	4	5
	1					
	2					
	3					
	4					

On each net draw **one more dot** so that each cube will have dots on **opposite** faces.

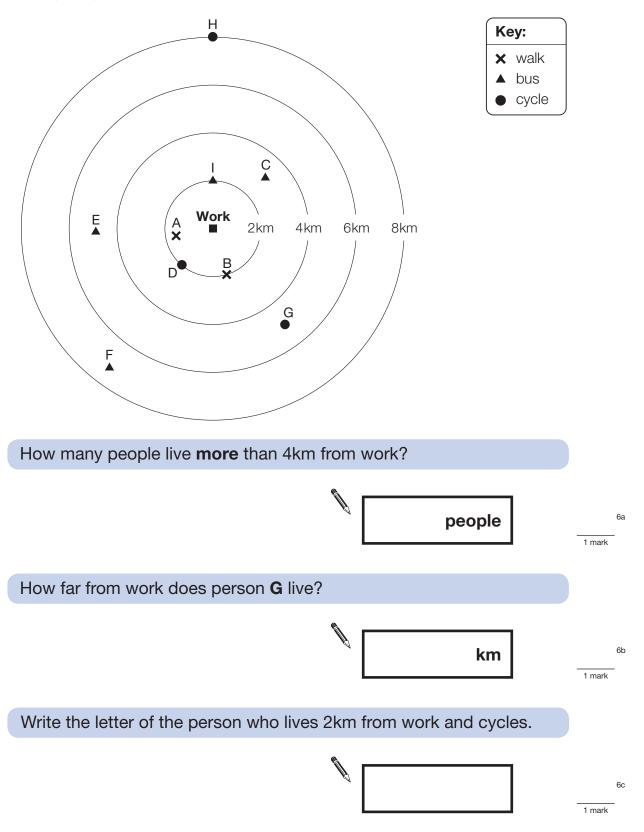


5i

5ii

2 marks

This diagram shows how nine people travel to work and how far away they live.

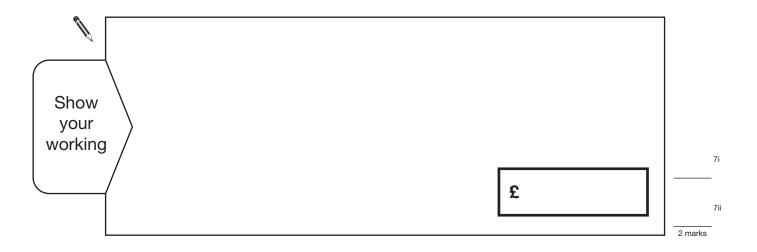


Megan and Chen are washing cars.

Megan gets £39 and Chen gets £55

They share what they get **equally** between them.

How much does each of them get?

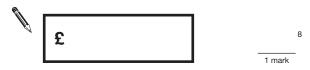


The table shows the cost of a new football kit.

Item	Cost
Shirt	£8.75
Shorts (1 pair)	£5.95
Socks (1 pair)	£4.15



Altogether, how much does the complete football kit cost?



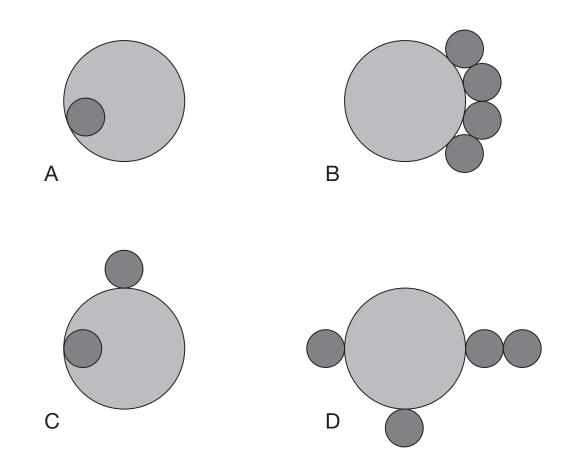
Here are some sentences about an amount of money.

Mark each sentence with a tick (\checkmark) if it is correct. Put a cross (x) if it is not correct.

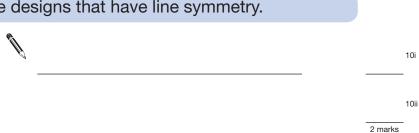
One has been done for you.

£1.03 can be made with exactly 1 coin.	×
£1.03 can be made with exactly 2 coins.	
£1.03 can be made with exactly 3 coins.	
£1.03 can be made with exactly 4 coins.	

Here are four designs made from two sizes of circles.



Write the letters of **all** the designs that have line symmetry.



Total out of 4

Write in the missing numbers.

Number	Rounded to the nearest whole number
5.05	
5.55	
4.45	
4.54	

11i

11ii

2 marks

Complete these calculations.



15

X

100

=

X

10

=

÷

100

=

150

1500

150

÷

10

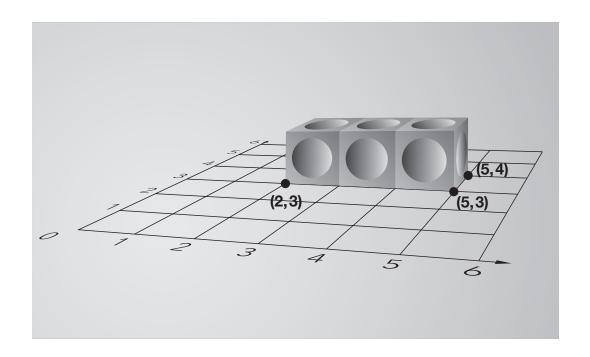
= |

12ii

12i

Alfie places three cubes on a coordinate grid.

The base of his shape is a rectangle.

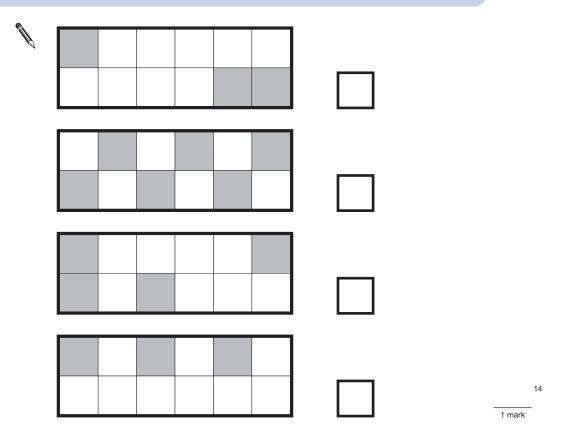


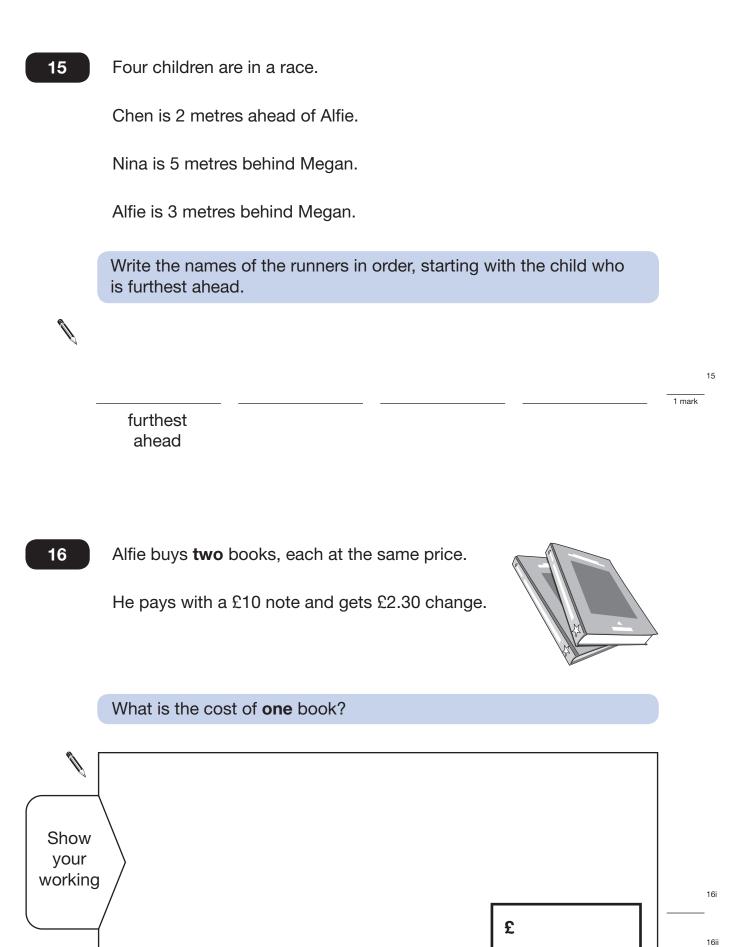
Complete this sentence:

The four vertices of the rectangle are

Total out of 5

Tick (\checkmark) each shape that is exactly $\frac{1}{4}$ shaded.

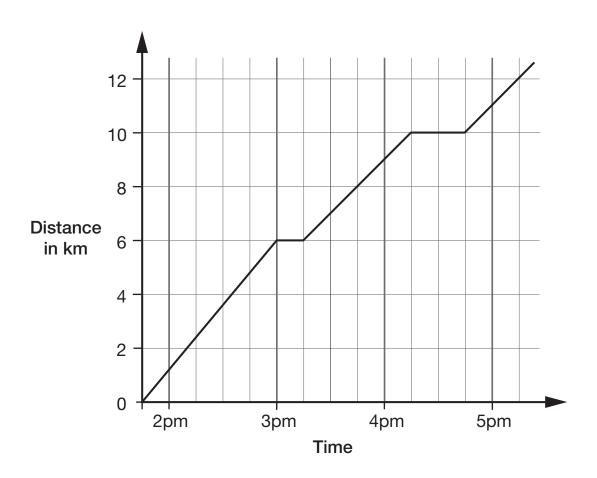




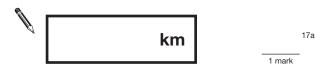
Total out of 4

2 marks

This graph shows the distance Alfie and Chen walked in an afternoon. They started at 1:45pm and had two breaks.



How many kilometres did they walk **between** the first and second breaks?

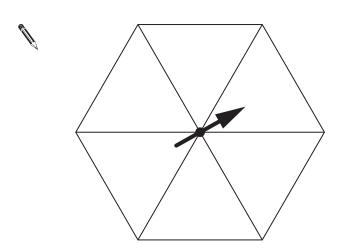


At what time did Alfie and Chen start their second break?



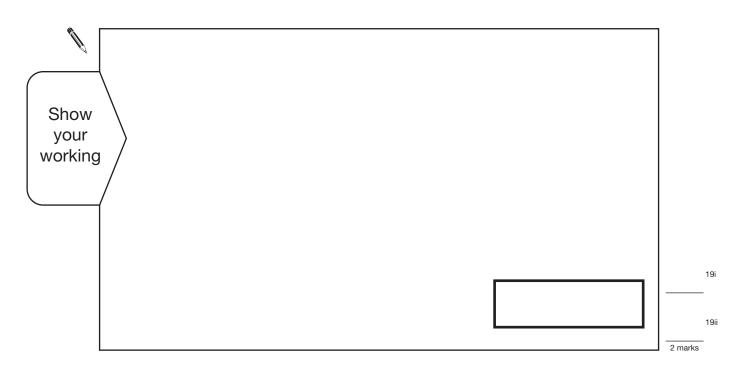
Here is a spinner.

Write a whole number in each section of the spinner so that it is **certain** you will get a number less than 4 and it is **impossible** you will get an even number.



18 1 mark

19 Calculate **816** ÷ **24**



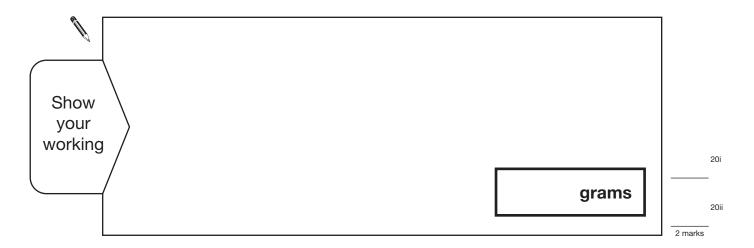
Total out of 5

Chen and Megan each have a parcel.

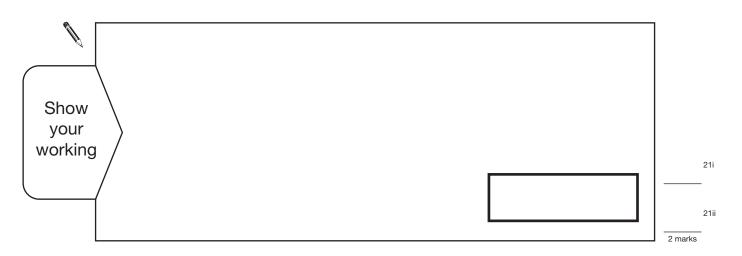
Chen's parcel weighs $1\frac{1}{2}$ kg.

Megan's parcel weighs 1.2kg.

How many more **grams** does Chen's parcel weigh than Megan's parcel?



What is 50% of Megan's number?



Write these in order of size, starting with the smallest.

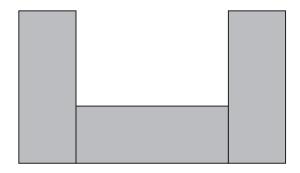
<u>2</u> 3	0.5	<u>3</u> 5	0.65	
				2 1 mark
smallest				

Alfie has some rectangles.

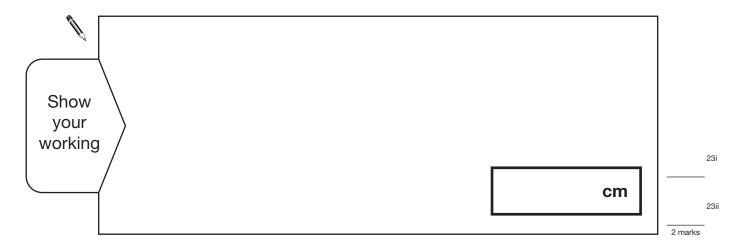
23



He makes this shape using three of the rectangles.



What is the **perimeter** of Alfie's shape?

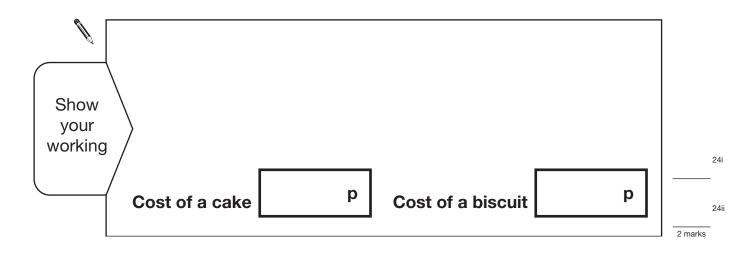




A cake costs 15p more than a biscuit.

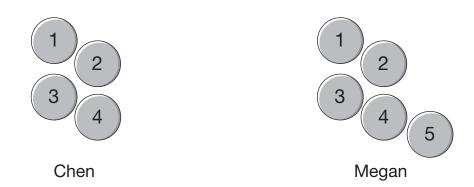
Megan bought a cake and two biscuits for 90p.

How much do a cake and a biscuit each cost?



Total out of 4

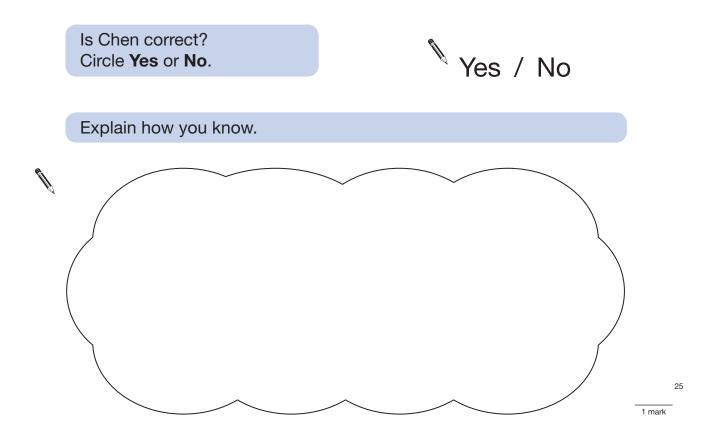
Chen and Megan each have a set of numbered counters.



They each take one of their own counters without looking.

Chen says,

'I am more likely than Megan to get a 4'



[BLANK PAGE]

Please do not write on this page.

Total out of 1



2013 Key Stage 2 levels 3–5 mathematics: Test A – Calculator not allowed Print version product code: STA/13/6022/p ISBN: 978-1-4459-5683-1 Electronic PDF version product code: STA/13/6022/e ISBN: 978-1-4459-5684-8

© Queen's Printer and Controller of HMSO 2013

Material contained in these booklets may be reproduced for educational and training purposes within a school setting, provided you acknowledge the copyright ownership of the material and you give the title of the source document. Reproduction or re-use of the material is not permitted for any commercial purpose.

For more copies

Additional printed copies of this booklet are not available. It can be downloaded from STA's orderline at http://orderline.education.gov.uk.