M	la

KEY STAGE

LEVELS

Mathematics test

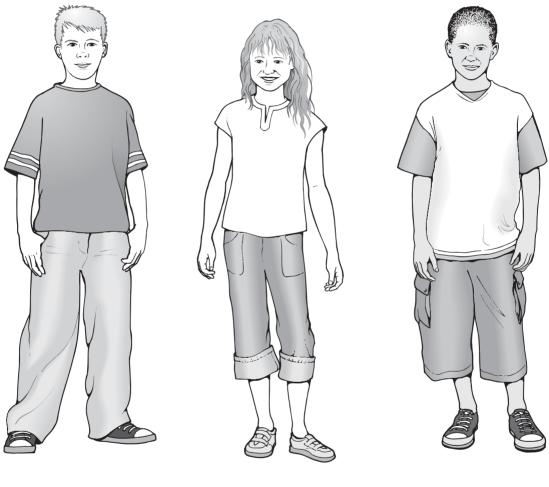
Test B Calculator allowed

First name	
Last name	
School	

For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
TOTAL	

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



Stefan

Lara

Amir

Instructions

You **may** 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.

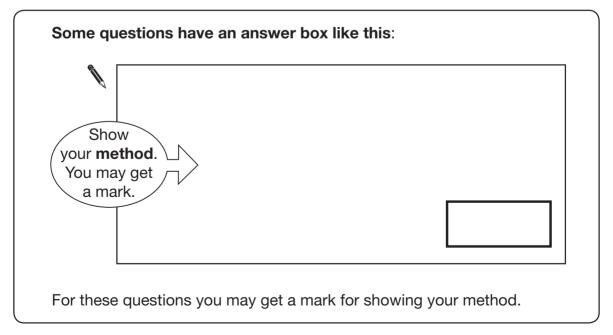
You can come back to it later, if you have time.

If you finish before the end, go back and check your work.

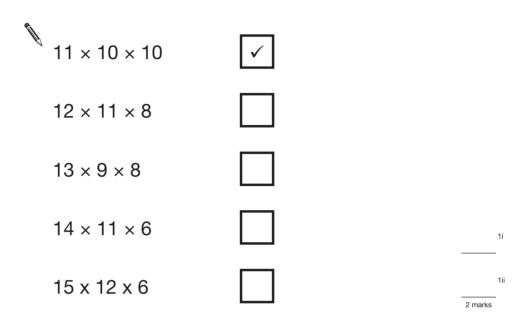
Follow the instructions for each question carefully.

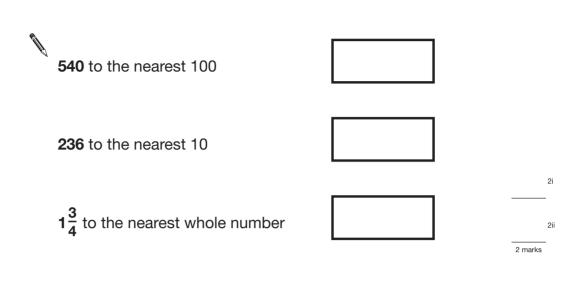
This shows where you need to put the answer.

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



One has been done for you.



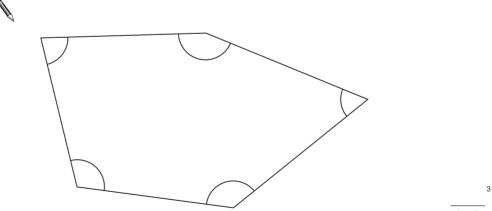




2

Look at this shape.

Tick (\checkmark) each angle that is **less** than a right angle.





Amir needs 27 cups.



How many packs must he buy?		
	packs	
		1 mark

There are 30 paper plates in a pack.

Amir buys 2 packs.

He uses 37 plates.



How many plates are left?





1 mark

5

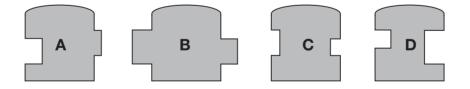
6

Stefan takes two coins and Lara takes the other three coins.

Stefan takes **15p more** than Lara.

Tick (\checkmark) the two coins Stefan takes.

Here are four shapes.

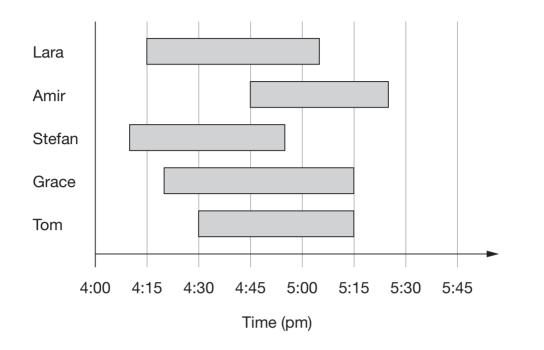


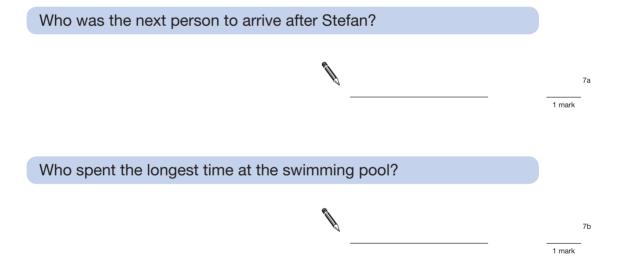
They can be fitted together in a straight line so that there are no gaps between them.

Write the order of the letters of the shapes when they all fit together.



This chart shows the times when 5 children were at a swimming pool one afternoon.



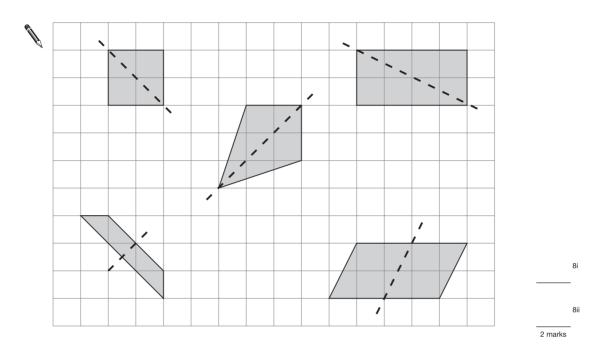


8

Here are five quadrilaterals on a square grid.

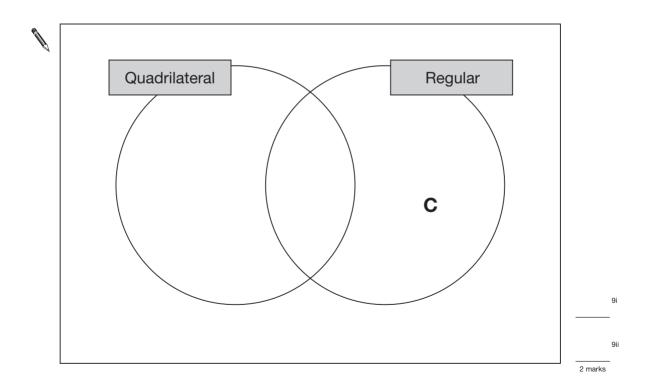
A dotted line has been drawn on each quadrilateral.

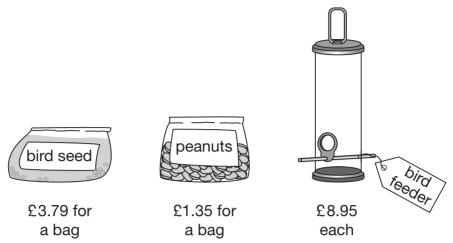
For each shape, put a tick (\checkmark) if the dotted line is a line of symmetry. Put a cross (**x**) if it is not a line of symmetry.



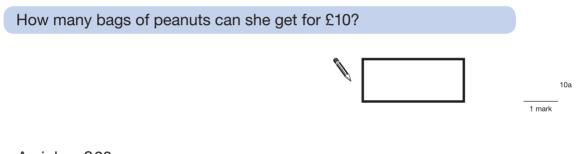
	Regular	Not regular
Quadrilateral	A	В
Not a quadrilateral	C	D

Use this information to write the letters **A**, **B** and **D** in the Venn diagram below.



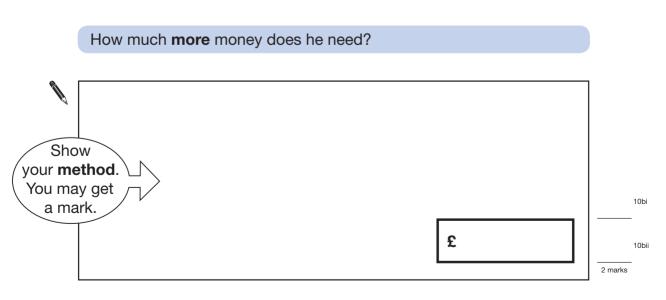


Lara has £10 to spend on peanuts.

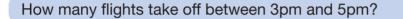


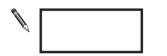
Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.



Flight number	Destination	Take-off time 🛪
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25





11a

1 mark

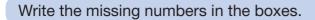
How much later does the second flight to Paris take off than the first?

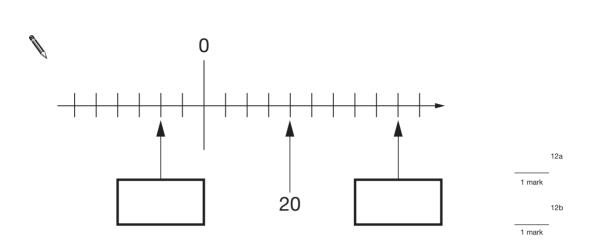


The flight to Dublin takes 50 minutes.

What time does it arrive in Dublin?

Here is part of a number line.

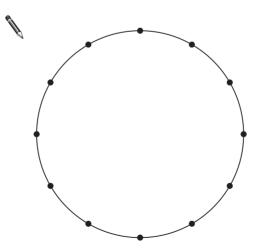




13 The twelve points on this circle are equally spaced.

Join four points to make a **square**.

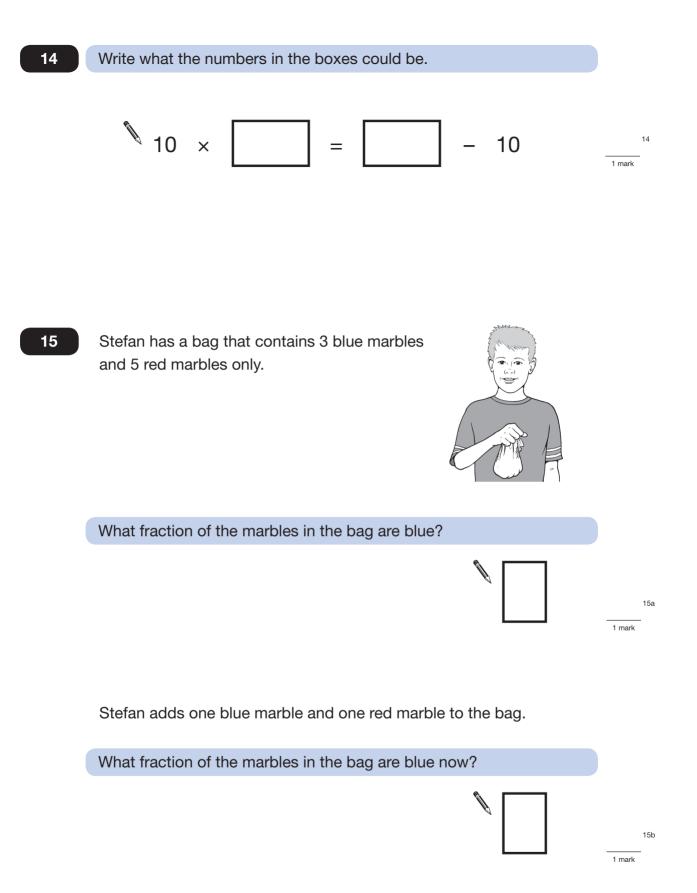
Use a ruler.



13

1 mark

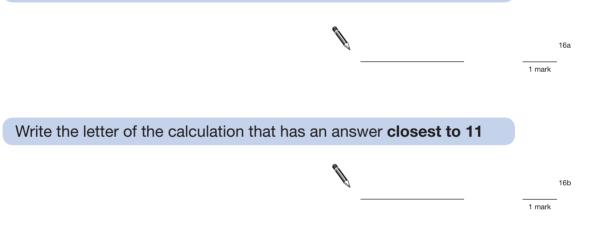
Total out of 6



Here are five calculations.

А	720	÷	64
В	820	÷	75
С	920	÷	80
D	1020	÷	90
Е	1120	÷	100

Write the letter of the calculation that has the greatest answer.

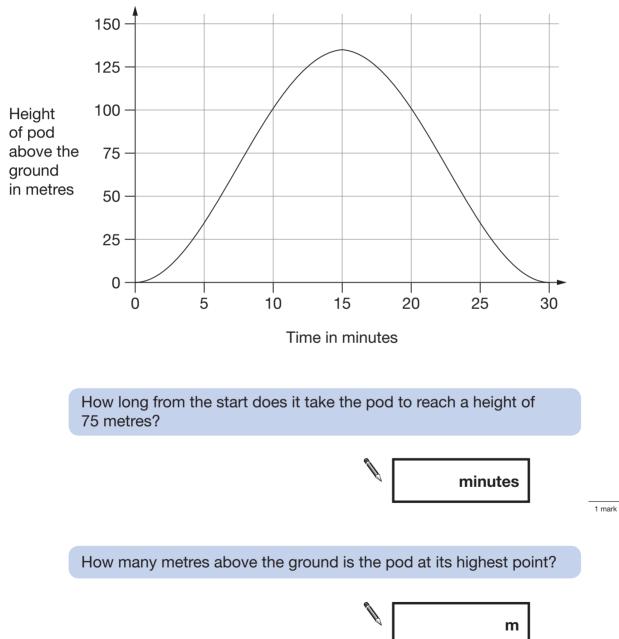


The London Eye is a big wheel with pods to carry passengers.

It takes 30 minutes for the wheel to make a complete turn.

This graph shows the height of a pod above the ground as the wheel turns.





1 mark

17b

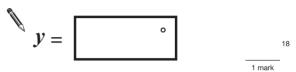
17a



Not to scale

Calculate the size of angle y in this diagram.

Do not use a protractor (angle measurer).



Lara chooses a **square number**.

She rounds it to the nearest hundred.

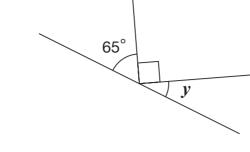
Her answer is 200



Write **all** the possible square numbers Lara could have chosen.

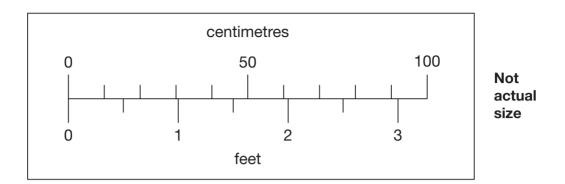
17

 19i
19ii 2 marks

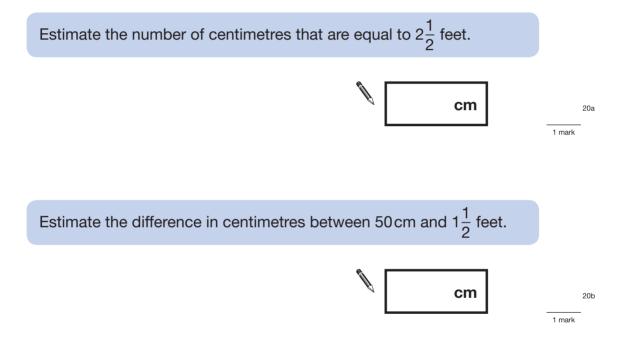


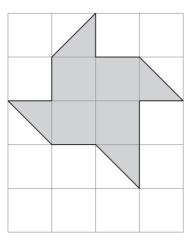
18

Total out of 5 _



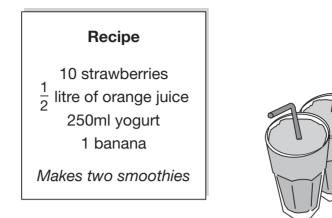
Look at the scale.



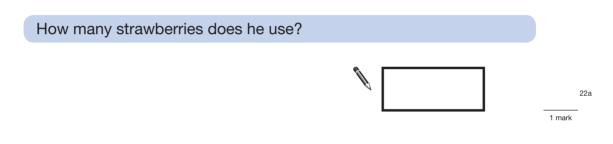


What percentage of the grid is shaded?

N	%	

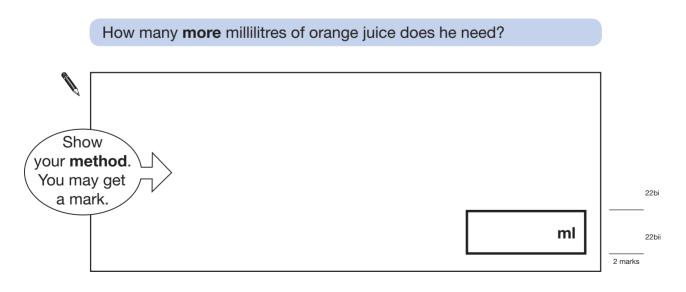


Stefan uses the recipe to make smoothies. He uses 1 litre of yogurt.



Amir uses the same recipe.

He wants to make 5 smoothies. He has 1 litre of orange juice.



End of test