Ma

XEY STAGE

3-5

# 2000

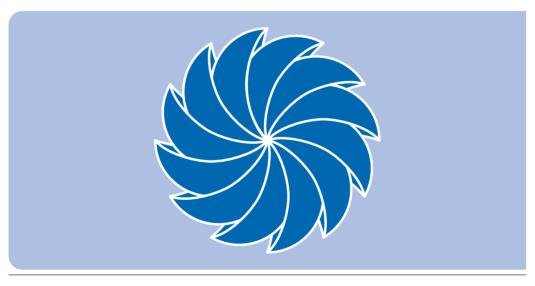
# Mathematics test

# Test B

# Calculator allowed

Last name \_\_\_\_\_

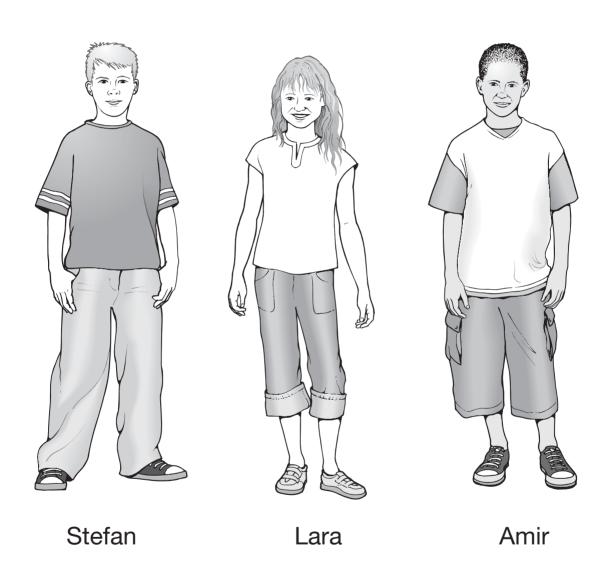
School



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.



#### 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.

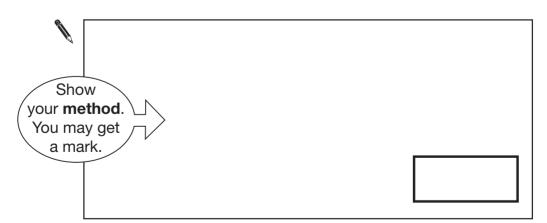
#### Follow the instructions for each question carefully.



This shows where you need to put the answer.

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

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



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

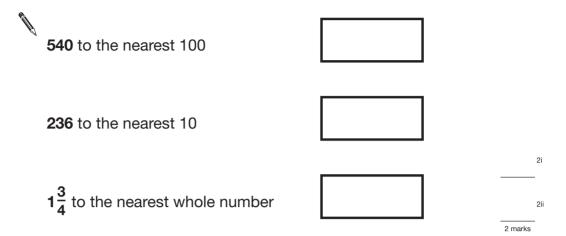
1

One has been done for you.

$$12 \times 11 \times 8$$

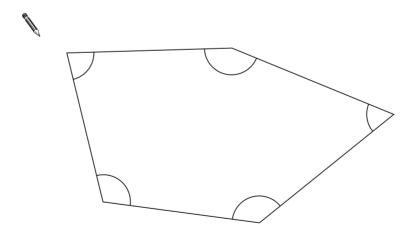
$$13 \times 9 \times 8$$

$$14 \times 11 \times 6$$



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?

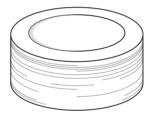


1 mark

There are 30 paper plates in a pack.

Amir buys 2 packs.

He uses 37 plates.



## How many plates are left?



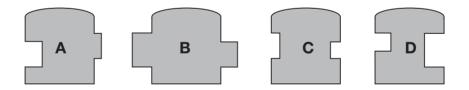


Stefan takes two coins and Lara takes the other three coins.

Stefan takes 15p more than Lara.

Tick (✓) the two coins Stefan takes.

Here are four shapes.



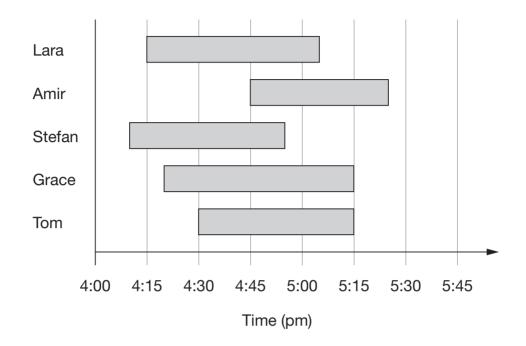
They can be fitted together in a straight line so that there are no gaps between them.

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

1 mark

7

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



Who was the next person to arrive after Stefan?

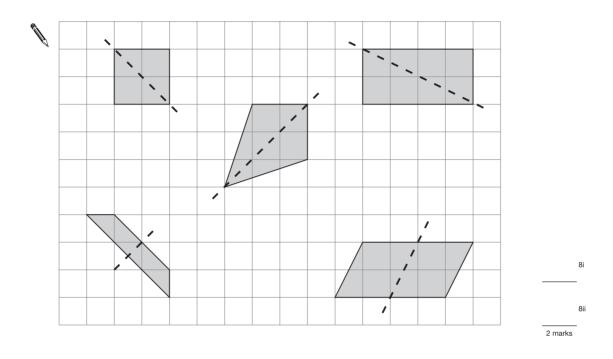
7a \_\_\_\_\_\_ 1 mark

Who spent the longest time at the swimming pool?

7b

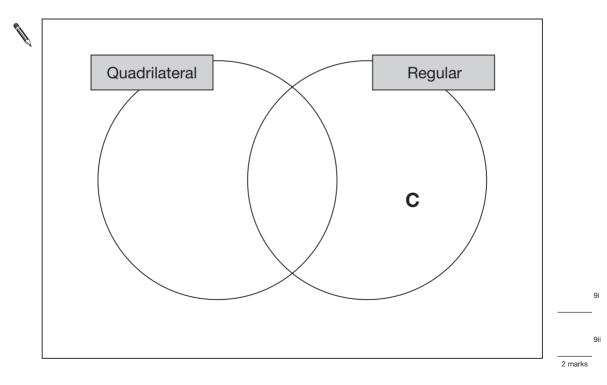
A dotted line has been drawn on each quadrilateral.

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  ${\bf A},\,{\bf B}$  and  ${\bf D}$  in the Venn diagram below.





Lara has £10 to spend on peanuts.

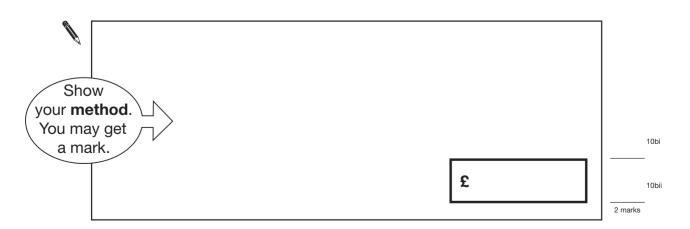
## How many bags of peanuts can she get for £10?



Amir has £20

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

#### How much more money does he need?

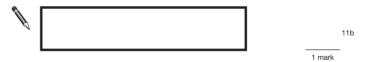


Flight number	Destination	Take-off time
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25

How many flights take off between 3pm and 5pm?

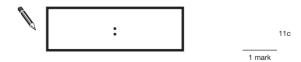


How much later does the second flight to Paris take off than the first?



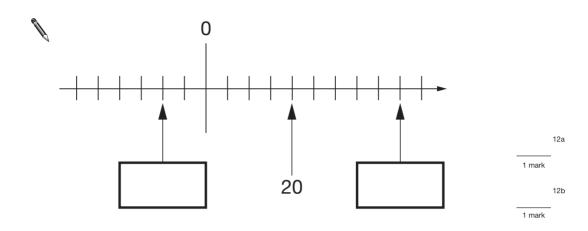
The flight to Dublin takes 50 minutes.

What time does it arrive in Dublin?



13

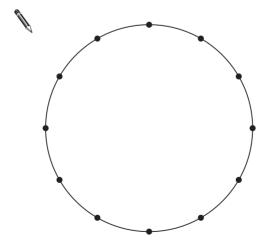
## Write the missing numbers in the boxes.



The twelve points on this circle are equally spaced.

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

Use a ruler.



1 mark

13

Stefan has a bag that contains 3 blue marbles and 5 red marbles only.



What fraction of the marbles in the bag are blue?



Stefan adds one blue marble and one red marble to the bag.

What fraction of the marbles in the bag are blue now?



15

- A 720 ÷ 64
- B 820 ÷ 75
- C 920 ÷ 80
- D 1020 ÷ 90
- E 1120 ÷ 100

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



Write the letter of the calculation that has an answer closest to 11

		16
	1 mark	•

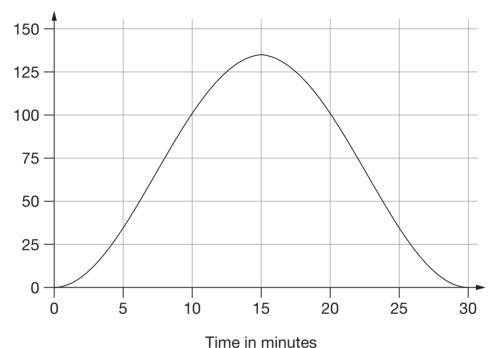
The London Eye is a big wheel with pods to carry passengers.

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.



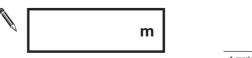
Height of pod above the ground in metres



How long from the start does it take the pod to reach a height of 75 metres?

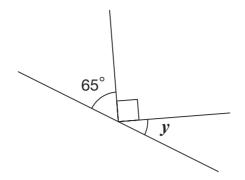


How many metres above the ground is the pod at its highest point?



1 mark

17b



#### 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.

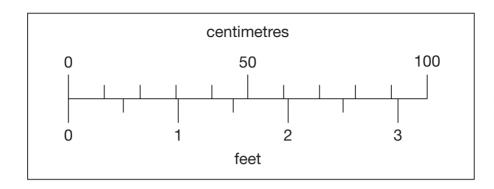


19i

.

2 marks

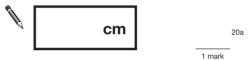
This scale shows length measurements in centimetres and feet.



Not actual size

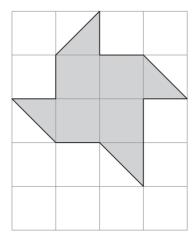
Look at the scale.

Estimate the number of centimetres that are equal to  $2\frac{1}{2}$  feet.



Estimate the difference in centimetres between 50 cm and  $1\frac{1}{2}$  feet.

20b



# What percentage of the grid is shaded?



1 mark

21

Here is a recipe for fruit smoothies.

#### **Recipe**

10 strawberries

1/2 litre of orange juice
250ml yogurt
1 banana

Makes two smoothies



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

#### How many strawberries does he use?

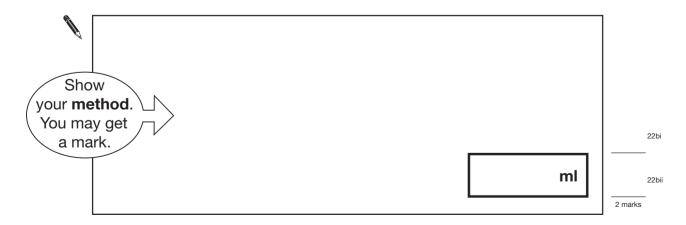


Amir uses the same recipe.

He wants to make 5 smoothies.

He has 1 litre of orange juice.

#### How many more millilitres of orange juice does he need?



End of test

21 Total out of 3