Ma

KEY STAGE 2

LEVELS 3–5

2008

Mathematics test

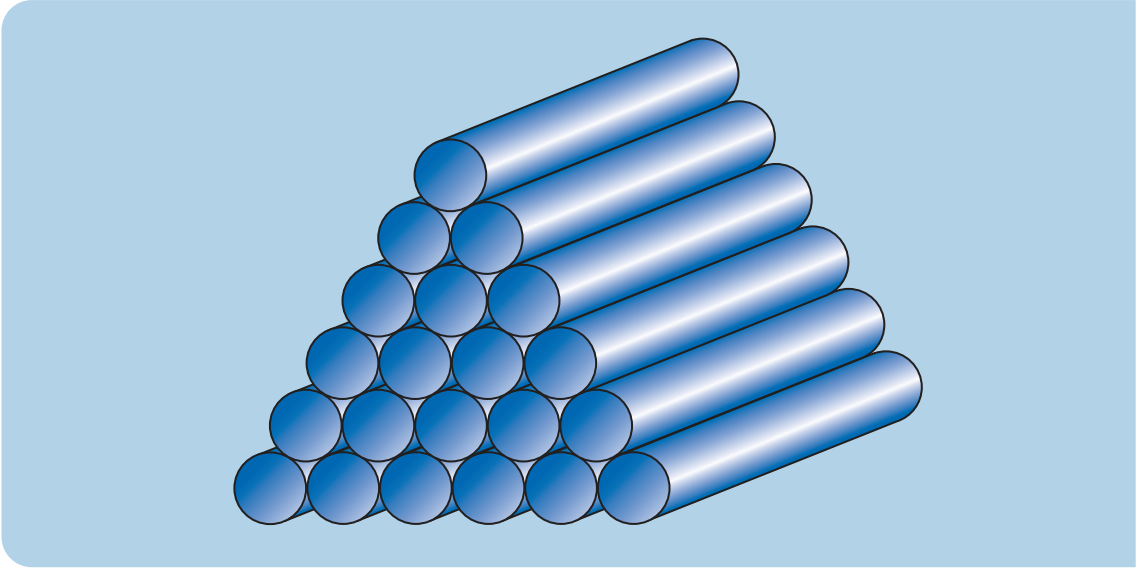
Test B

Calculator allowed

First name _____

Last name _____

School _____



For marker's use only

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

Emily

Nisha

Ben

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.

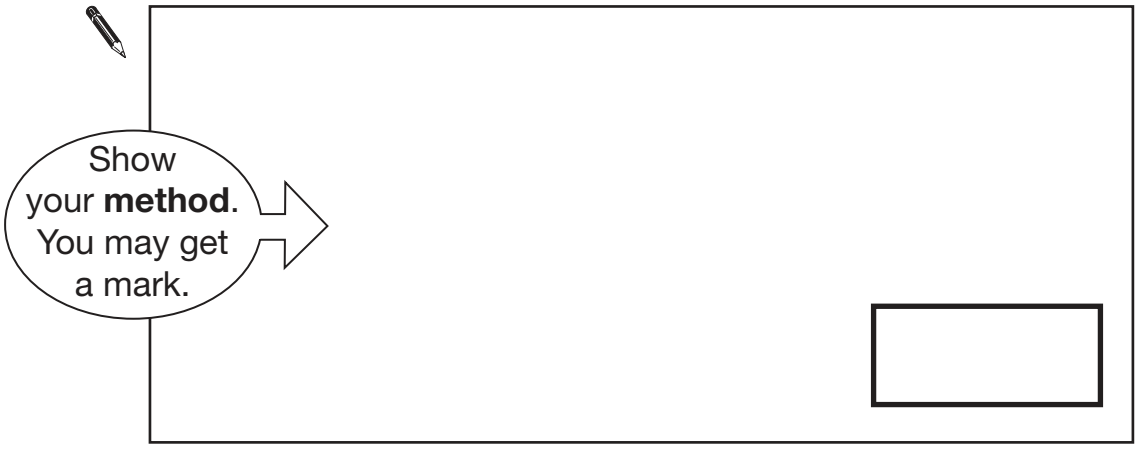
If you finish before the end, **go back and check your work**.

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.

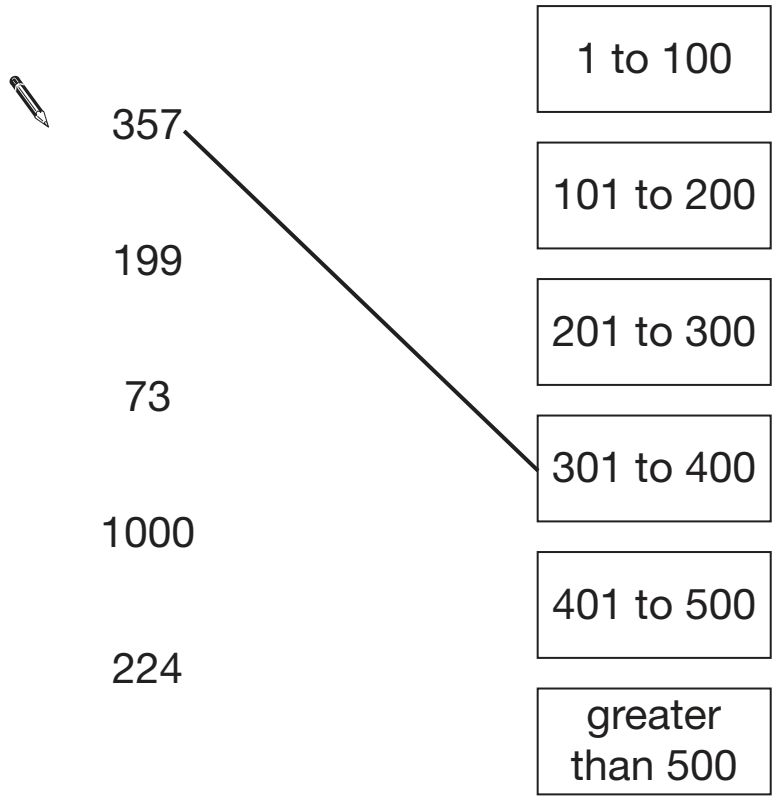
Some questions have an answer box like this:



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

1 Join each number to the set of numbers that it belongs to.

One has been done for you.



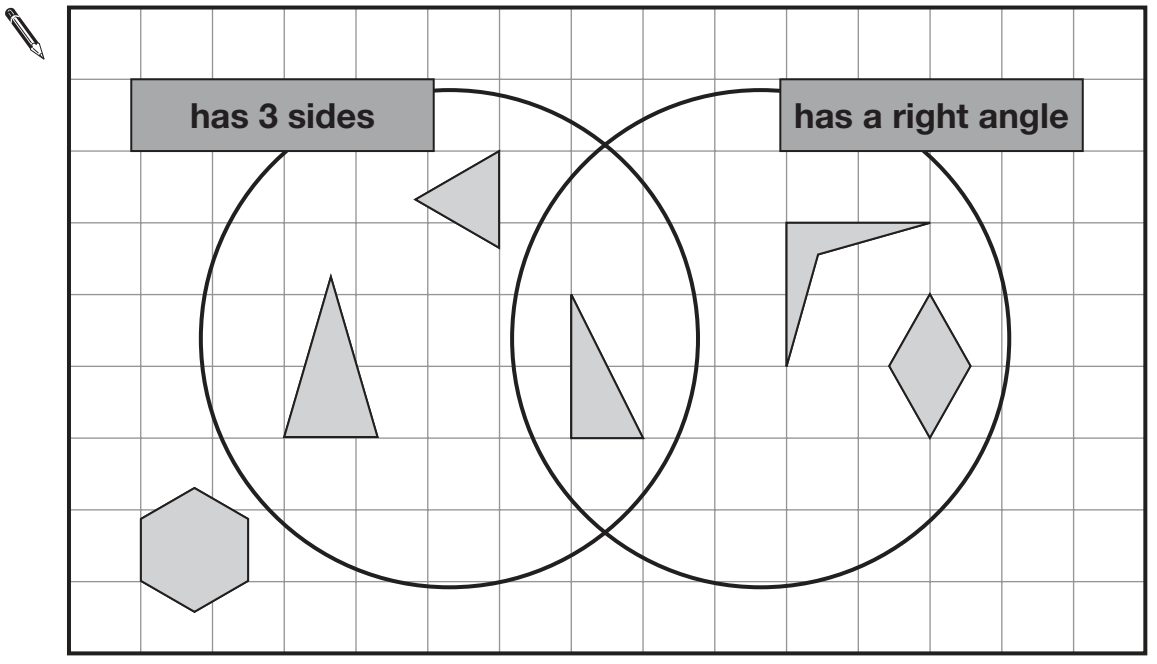
1i _____

1ii _____

2 marks

2 Here is a diagram for sorting shapes.

One of the shapes is in the wrong place.
Put a cross (✘) on it.



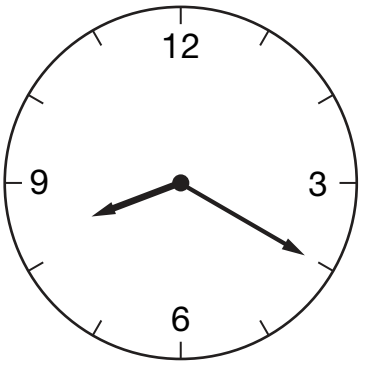
2

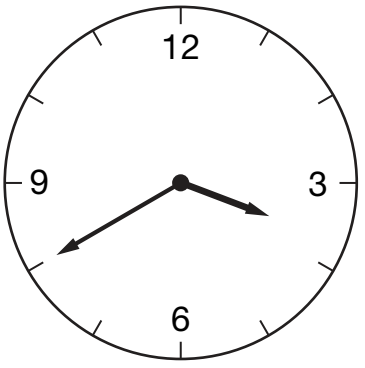
1 mark

Total out of 3 _____

3 Here are two clock faces.

Join each clock face to the correct digital time.





9:20

3:40

4:40

8:40

8:20

4:20

3a

1 mark

3b

1 mark

4

bottle of milk
39p

cake
29p

Ben buys **three** bottles of milk and **six** cakes.

How much does he spend altogether?

Show your **method**. You may get a mark.

£

4i

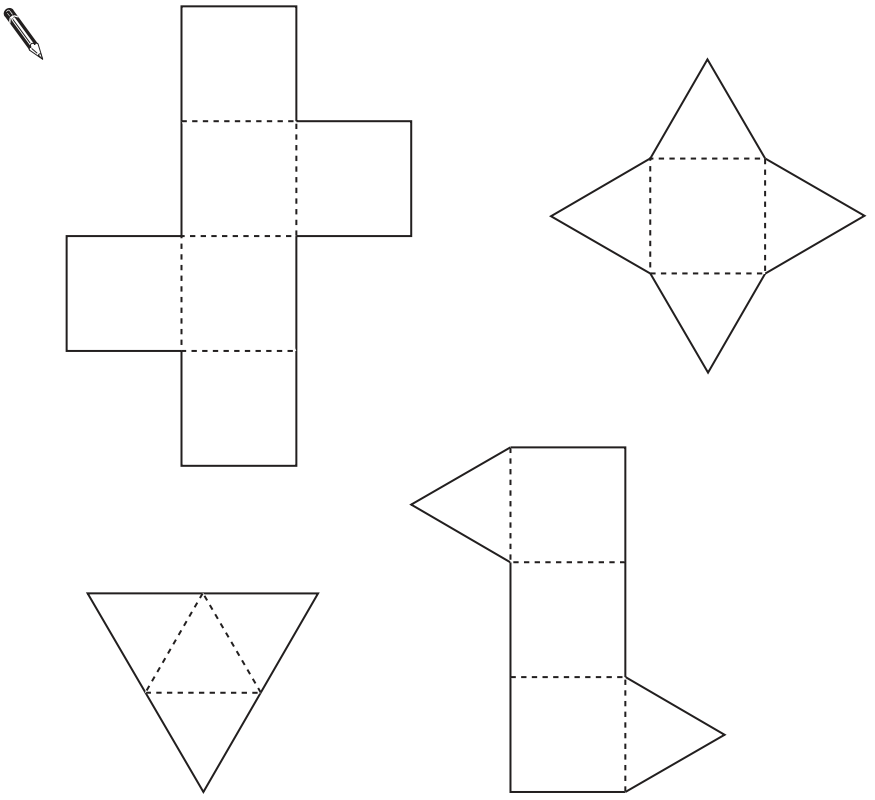
4ii

2 marks

Total out of 4 _____

5 Here are some nets of shapes.

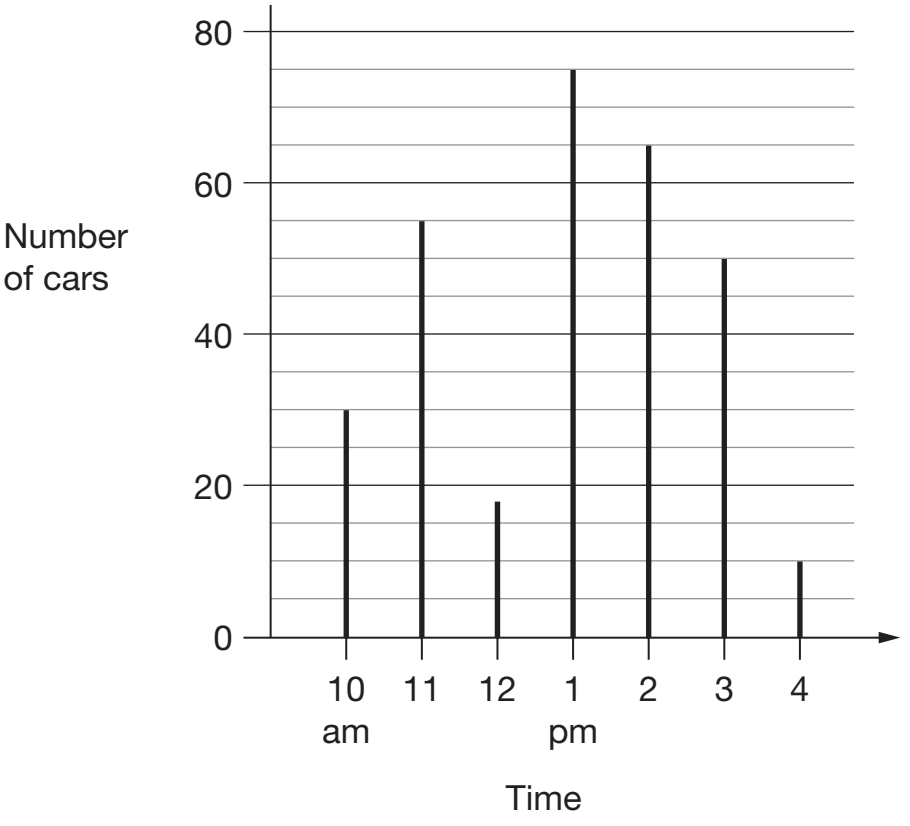
For each net, put a tick (✓) if it folds to make a **pyramid**.
Put a cross (✗) if it does not.



5

1 mark

6 This chart shows the number of cars in a car park at different times on one day.



There are 80 cars in the car park when it is full.

How many **empty spaces** were there in the car park at 3pm?

6a

1 mark

Circle **all** the times when the car park was less than half full.

10 am | 11 am | 12 noon | 1 pm | 2 pm | 3 pm | 4 pm

6b

1 mark

Total out of 3 _____

7 Emily has these coins.

How much more money does Emily need to make exactly £5?

£

7a

1 mark

Nisha has **thirty** 5p coins and **twenty** 10p coins.

How much money does she have altogether?

£

7b

1 mark

8 Nisha says,

'When you halve any even number, the answer is always an odd number'.

Is she correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

8

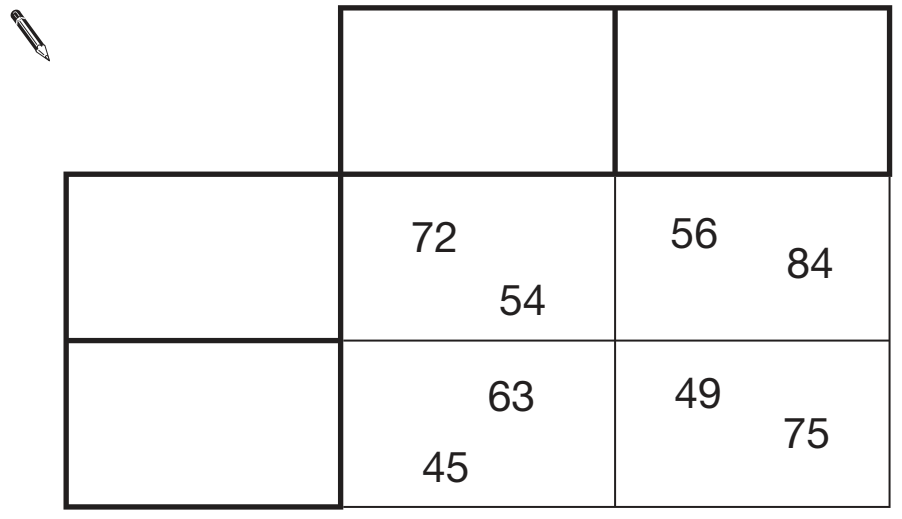
1 mark

Total out of 3 _____

9 Here are four labels.

even	multiples of 9	not even	not multiples of 9

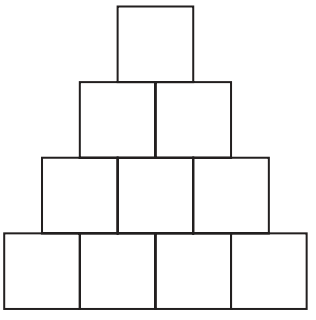
Write each label in the correct position on the sorting diagram below.



9

1 mark

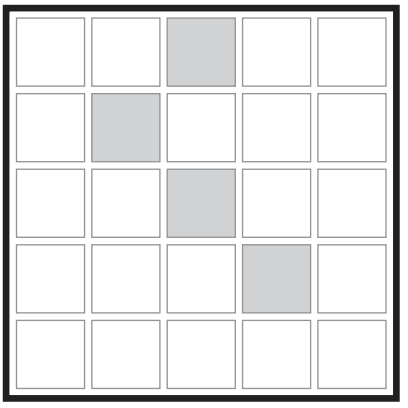
10 Shade $\frac{1}{5}$ of this shape.



10

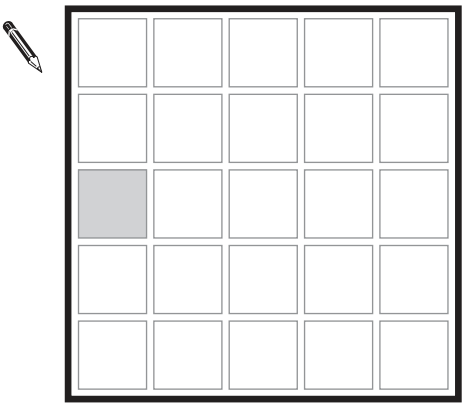
1 mark

11 Ben makes this design on a grid.



He rotates the grid to a new position.

Shade in the missing parts of the design.



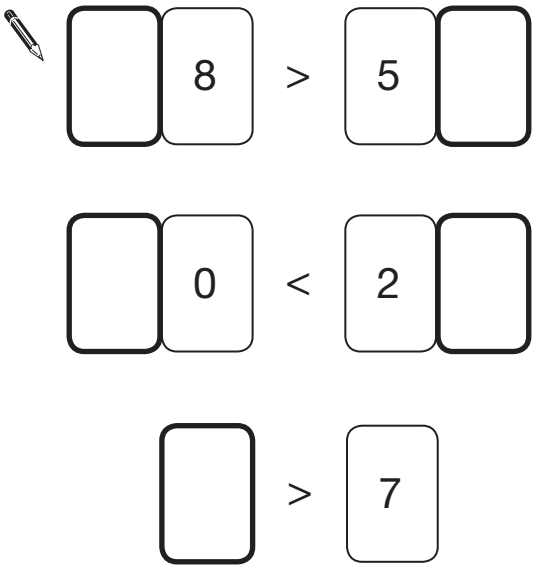
11

1 mark

Total out of 3 _____

12 Here are five digit cards.

Use each card **once** to complete the statements below.

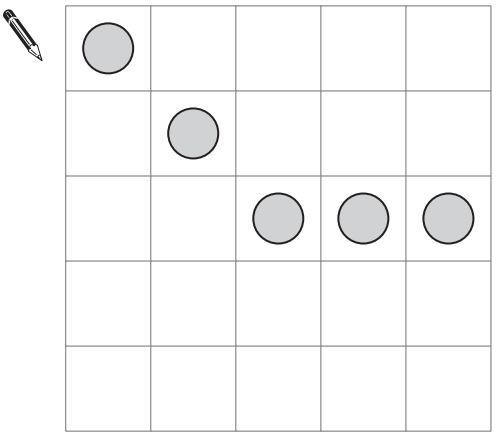


12i _____

12ii _____

2 marks

13 Draw **two** more circles on this grid to make a design that has a line of symmetry.



13 _____

1 mark

14 Emily chooses two numbers.

She adds the two numbers together and divides the result by 2

Her answer is 44

One of Emily's numbers is 12

What is Emily's other number?

Show your **method**. You may get a mark.

14i _____

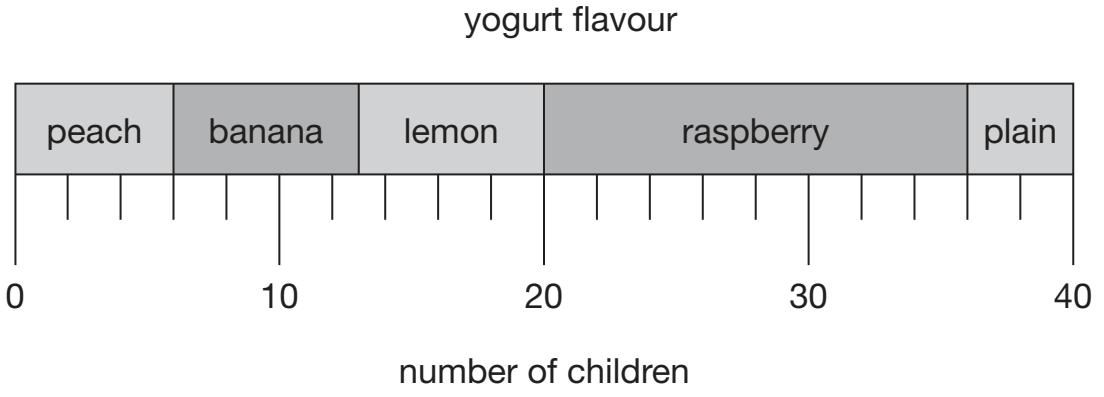
14ii _____

2 marks

Total out of 5 _____

15 40 children each chose their favourite flavour of yogurt.

This chart shows the results.



How many children chose **lemon** yogurt?

15a

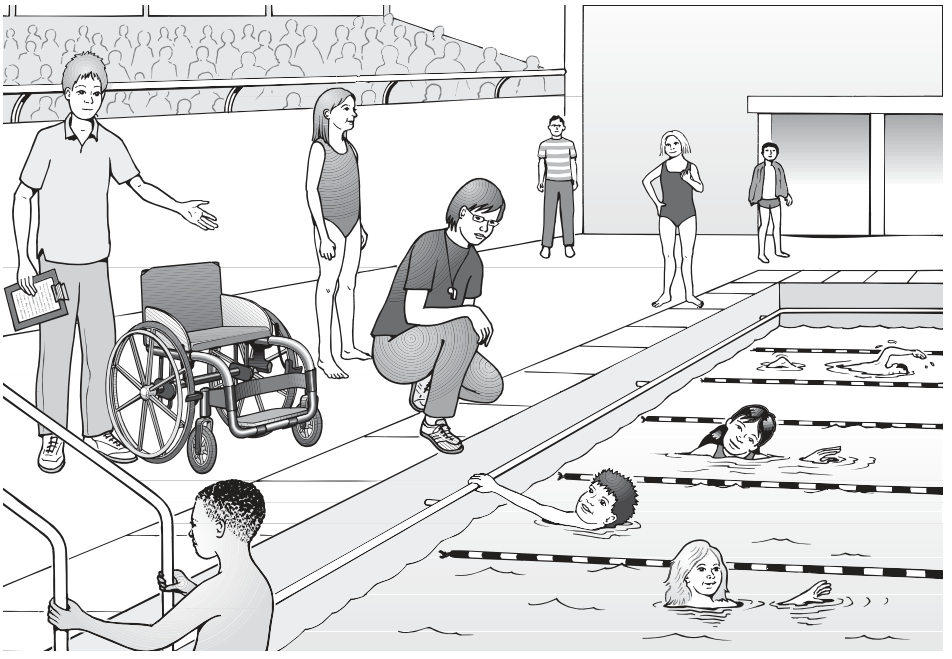
1 mark

How many more children chose **raspberry** than **plain** yogurt?

15b

1 mark

16



Emily, Ben and Nisha take part in a sponsored swim to collect money for charity.

Emily collects £2.75 **more** than Nisha.

Ben collects £15

Nisha collects £7 **less** than Ben.

Altogether how much money do the three children collect?

Show your **method**. You may get a mark.

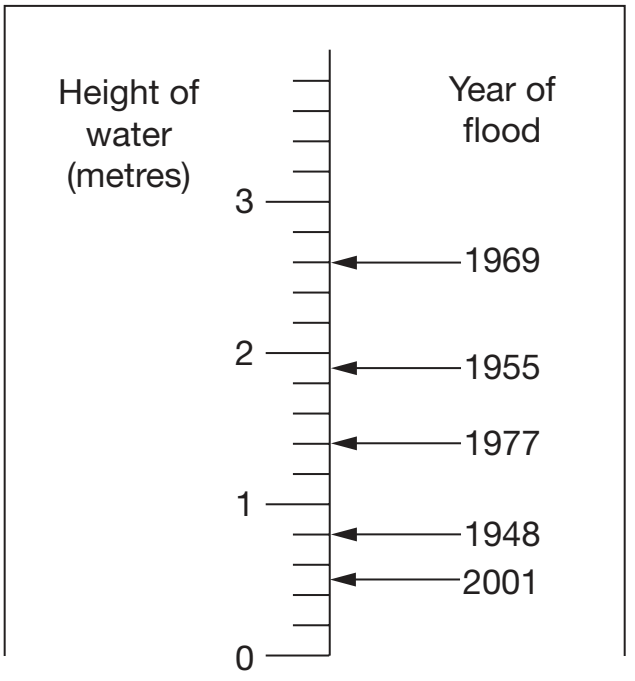
£ _____ 16i

16ii

2 marks

Total out of 4 _____

17 This scale shows the dates of floods and the height of the water in the floods.



How high was the water in the 1955 flood?

m

17a

1 mark

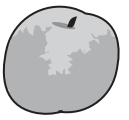
How much higher was the water in the 1969 flood than in the 1948 flood?

m

17b

1 mark

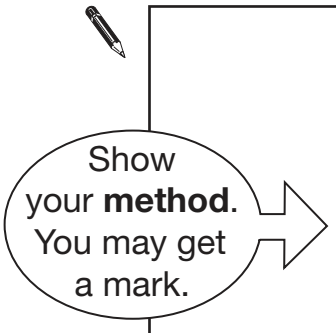
18

Small peaches 15p each 	Large peaches 25p each 

Emily has £5 to spend on peaches.

She decides to buy only small peaches or only large peaches.

How many **more** small peaches than large peaches can she buy for £5?



18i _____

18ii _____

2 marks

19 How much less than 1000 is **9.7 × 9.8 × 9.9**?

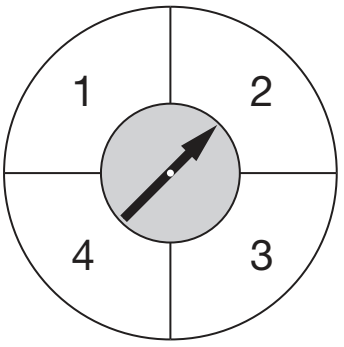
19 _____

1 mark

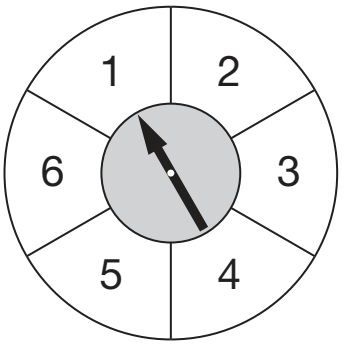
Total out of 5 _____

20 Here are two spinners, P and Q.

Spinner P has 4 equal sections.
Spinner Q has 6 equal sections.



P



Q

Ben spins the pointer on each spinner.

For each statement below, put a tick (✓) if it is correct.
Put a cross (✗) if it is not correct.

Ben is **more likely** to score 4 on spinner P than on spinner Q. ☐

The score on spinner P is **certain** to be less than the score on spinner Q. ☐

Ben is **equally likely** to score an even number on spinner P and spinner Q. ☐

A score of less than 3 is **equally likely** on spinner P and spinner Q. ☐

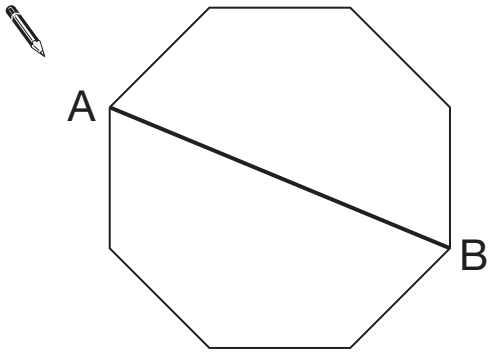
20i

20ii

2 marks

21 Here is a regular octagon with two vertices joined to make the line AB.

Join two other vertices to draw **one** line that is **parallel** to the line AB.

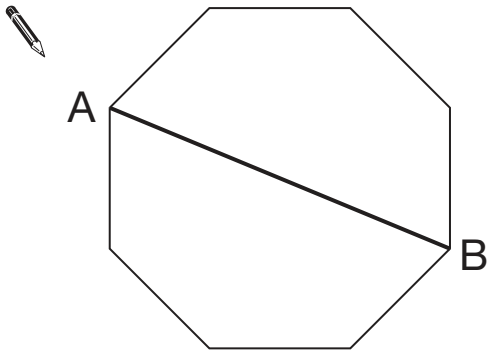


21a

1 mark

Here is the octagon again.

Join two vertices to draw **one** line that is **perpendicular** to the line AB.

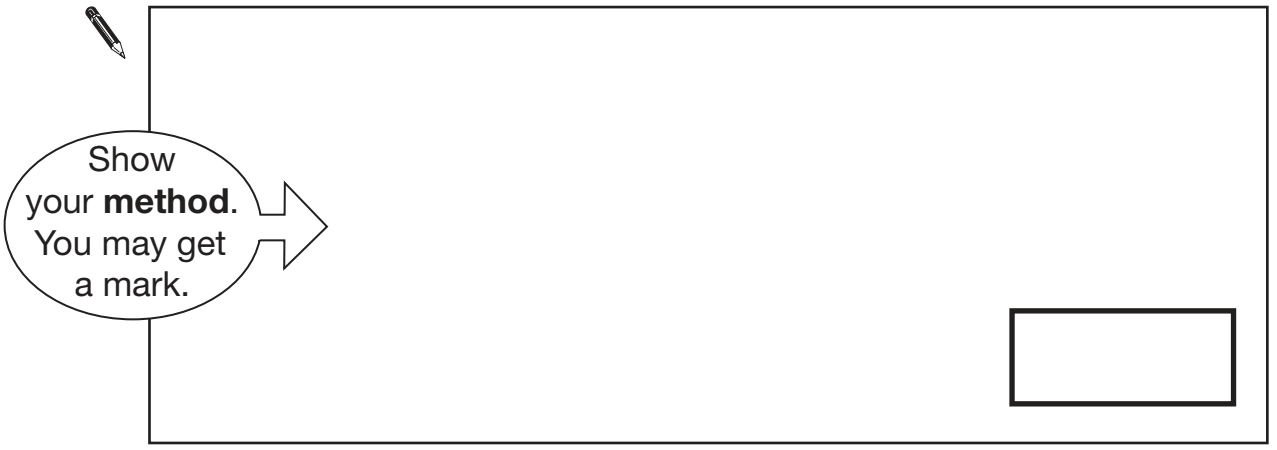


21b

1 mark

Total out of 4 _____

22 Find the multiple of 45 that is closest to 8000



22i

22ii

2 marks

23 m stands for a whole number greater than 10 and less than 20

n stands for a whole number greater than 2 and less than 10

What is the **smallest** number that $m \times n$ could be?

23a

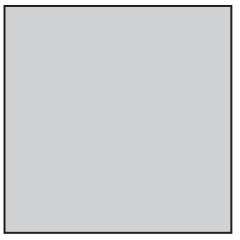
1 mark

What is the **largest** number that $m - n$ could be?

23b

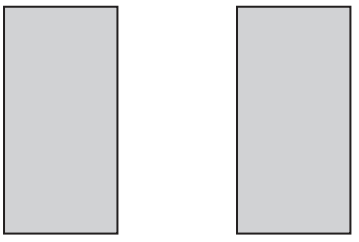
1 mark

24 The perimeter of a square is 72 centimetres.



Not actual size

The square is cut in half to make two identical rectangles.



What is the perimeter of **one** rectangle?

Show your **method**. You may get a mark.

cm

24i

24ii

2 marks

Total out of 6 _____

QCA/08/3309 (Pupil pack)
QCA/08/3303 (Mark schemes pack)