

# MATHEMATICS

KEY STAGE 2 2002

TEST B

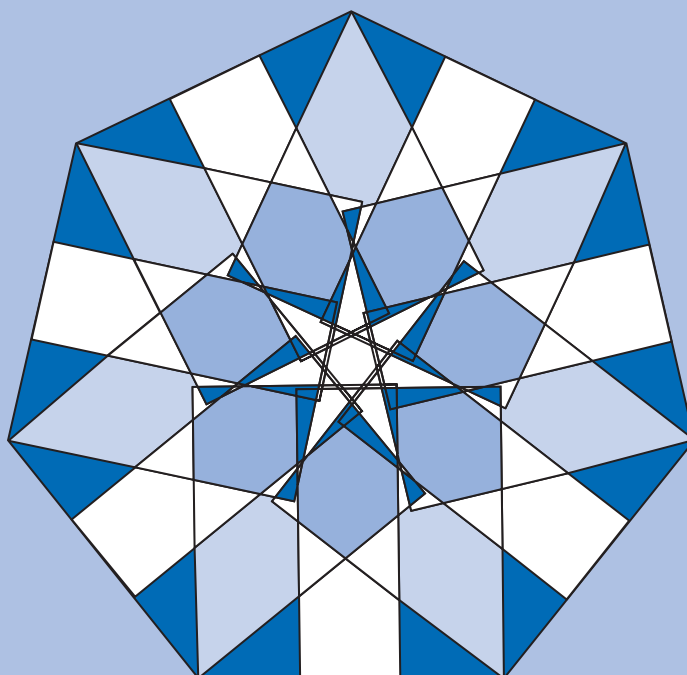
LEVELS

**3-5**

CALCULATOR ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
<b>TOTAL</b>	

**BORDERLINE  
CHECK**



**First Name**

**Last Name**

**School**



# 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:**



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



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

**1**

Draw a line from each card to the correct part of the number line.

One has been done for you.  
You may use a calculator.

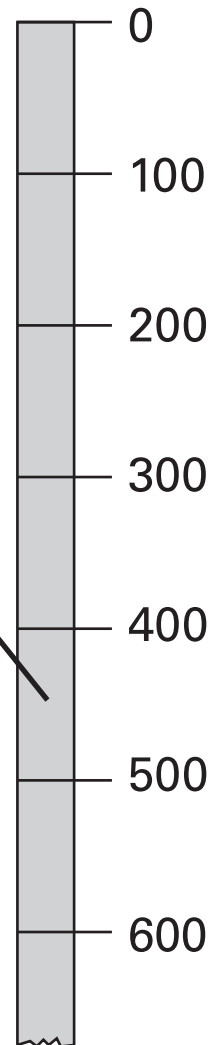


$$283 + 159$$

$$29 \times 18$$

$$720 \div 45$$

$$759 - 484$$



1a

1 mark

1b

1 mark

1c

1 mark

**2**

Write in the missing numbers.



$$22 \times \square = 660$$

$$\square - 75 = 109$$

2a

1 mark

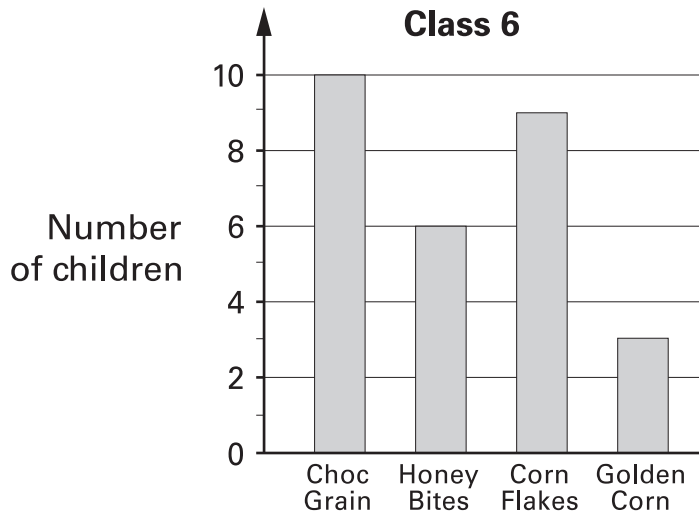
2b

1 mark

3

Tom does a survey of children's favourite breakfast cereals.

These are the results for Class 6



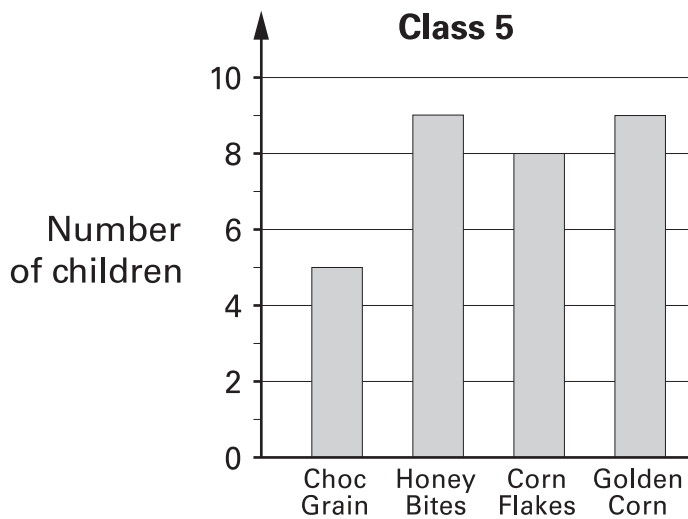
How many **more** children in Class 6 prefer **Choc Grain** than **Golden Corn**?



3a

1 mark

These are the results for Class 5



How many children in **both** classes like **Honey Bites** best?



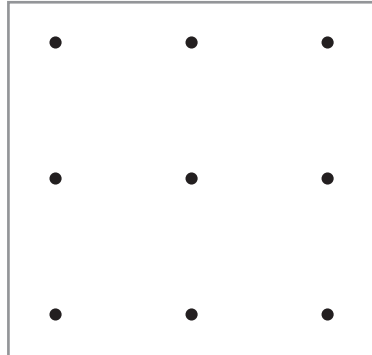
3b

1 mark

4

On the grid join dots to make a triangle which does **not** have a **right angle**.

Use a ruler.

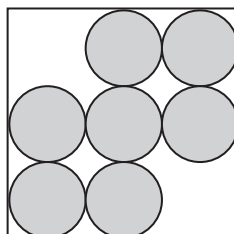
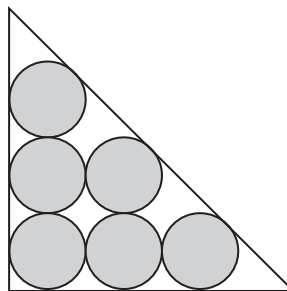
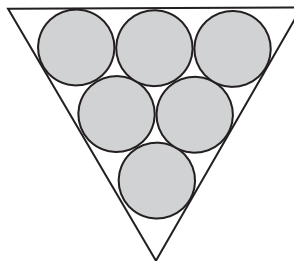


4  
1 mark

5

Use a ruler to draw **one** line of symmetry on **each** of these designs.

You may use a mirror or tracing paper.



5  
2 marks

6



A box of four balls costs **£2.96**

How much does each ball cost?



6a

1 mark

Dean and Alex buy **3 boxes** of balls between them.

Dean pays **£4.50**

How much must Alex pay?



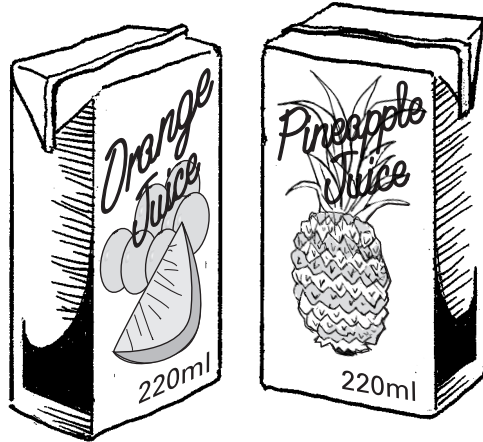
Show your **method**.  
You may get a mark.

6b

2 marks

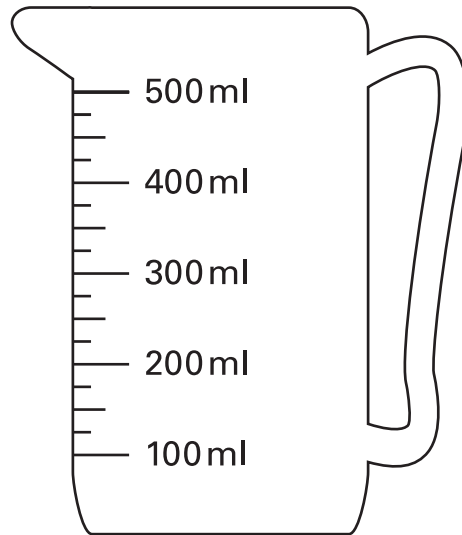
7

Mina has two cartons of juice.  
Each carton contains **220ml**.



She empties them both into this jug.

Draw an arrow (→) to show the level of the mixture in the jug.

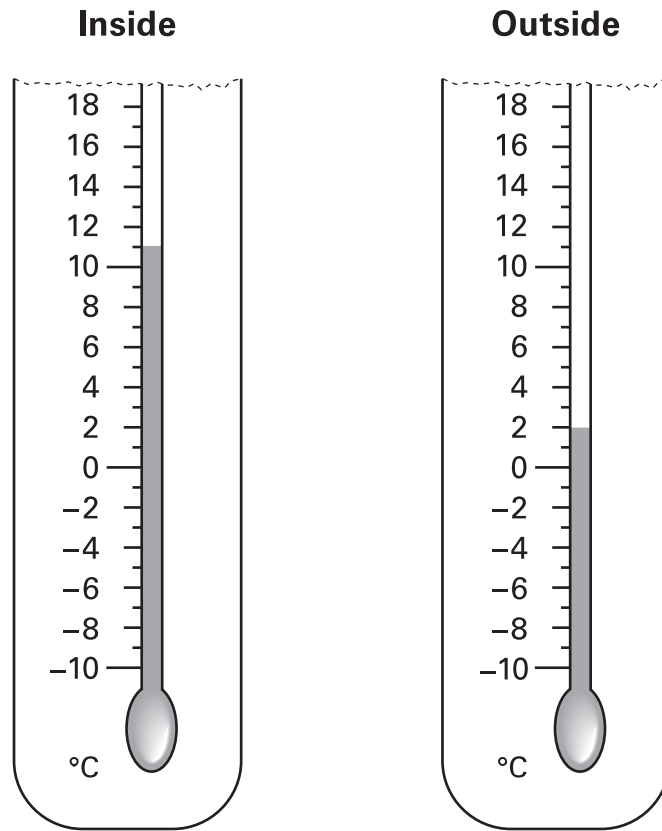


7  
1 mark



8

Two thermometers show the temperature inside and outside a greenhouse on a day in January.



How many degrees **warmer** was it inside the greenhouse than outside?

  °C

8a  
1 mark

Later the temperatures were

inside	outside
-1°C	-8°C

What is the difference between these two temperatures?

  °C

8b  
1 mark

**9**

Jemma thinks of a number.

She says,

***'Add 3 to my number and then  
multiply the result by 5  
The answer is 35'***

What is Jemma's number?



9a

1 mark

Riaz thinks of a number.

He says,

***'Halve my number and then add 17  
The answer is 23'***

What is Riaz's number?



9b

1 mark

**10**

Write in the missing number.



$$32.45 \times \boxed{\phantom{000}} = 253.11$$

10

1 mark



**185** people go to the school concert.

They pay **£1.35** each.

How much ticket money is collected?



£



11a

1 mark

Programmes cost **15p** each.

Selling programmes raises **£12.30**

How many **programmes** are sold?



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



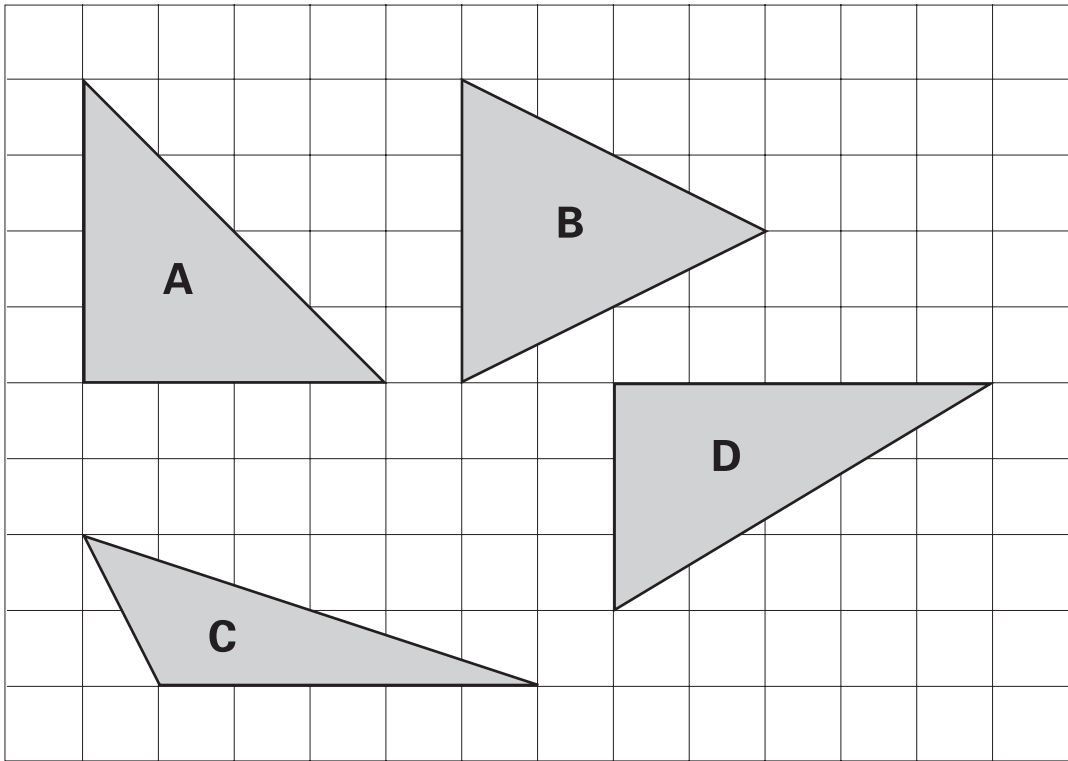
11b

2 marks



12

Here are four triangles drawn on a square grid.



Write the letter for each triangle in the correct region of the sorting diagram.

One has been done for you.

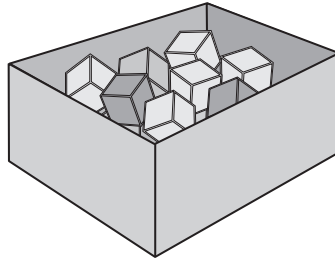


	has a <b>right</b> angle	has an <b>obtuse</b> angle	has 3 <b>acute</b> angles
is isosceles	<b>A</b>		
is <b>not</b> isosceles			

13


There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,  
four of the cubes are blue  
and the rest are green.



How many **green** cubes are in the box?


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




13a  
2 marks

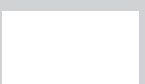
One more **blue** cube is put into the box.

What fraction of the cubes in the box are **blue** now?





13b  
1 mark





The table shows the cost of coach tickets to different cities.

		Hull	York	Leeds
Adult	single	£12.50	£15.60	£10.25
	return	£23.75	£28.50	£19.30
Child	single	£8.50	£10.80	£8.25
	return	£14.90	£17.90	£14.75

What is the total cost for a **return** journey to York for one adult and two children?



£

14a

1 mark

How much **more** does it cost for two adults to make a **single** journey to Hull than to Leeds?



£

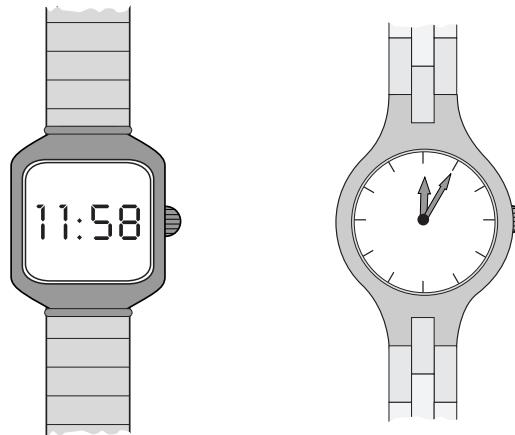
14b

1 mark

15

One of these watches is **3 minutes fast**.

The other watch is **4 minutes slow**.



What is the correct time?



15

1 mark

16

Use a calculator to work out  $49.3 \times (2.06 + 8.5)$

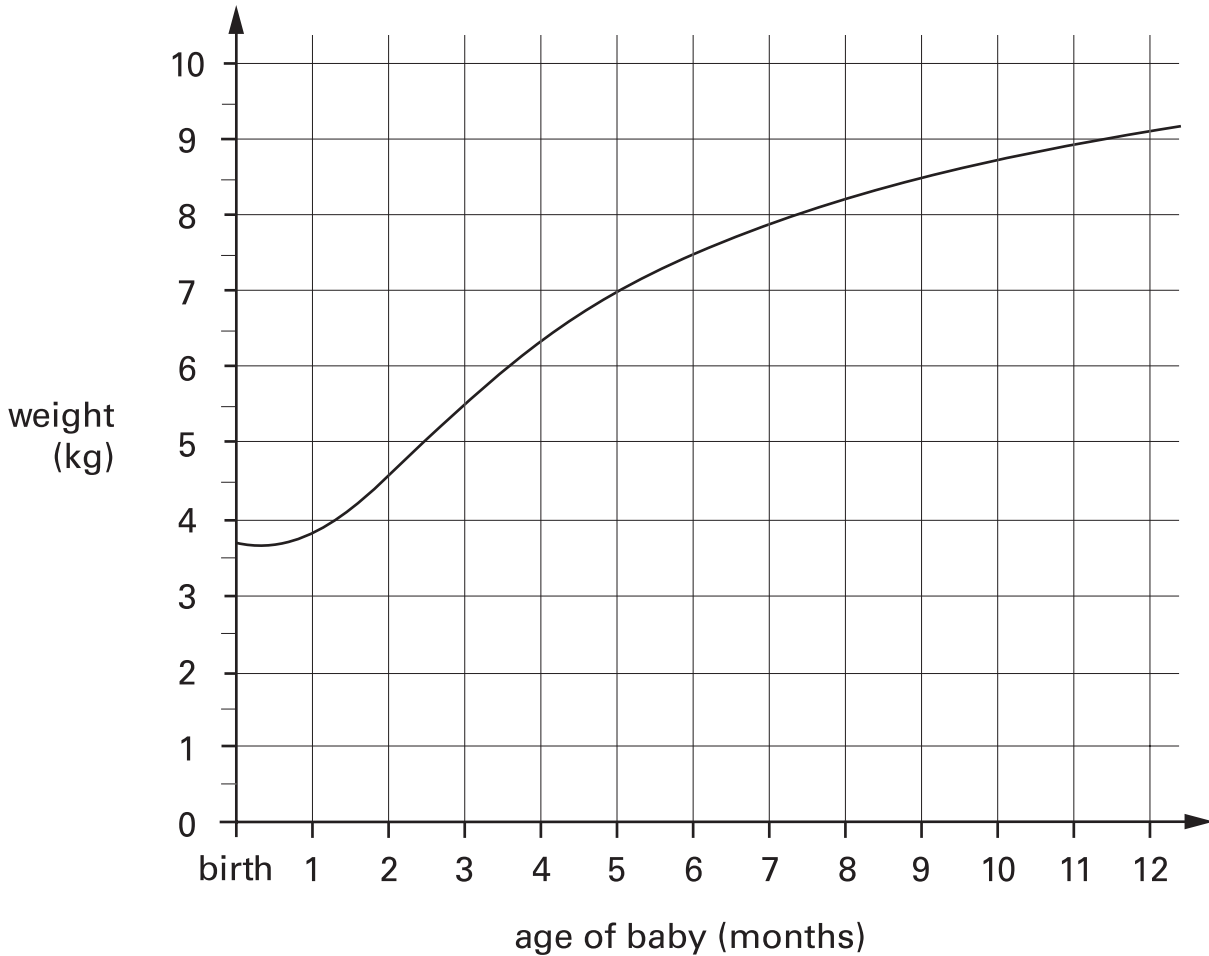


16

1 mark

17

This graph shows how the weight of a baby changed over twelve months.



From the graph, what was the weight of the baby at 10 months?

 kg

1 mark

How much **more** did the baby weigh at 5 months than at birth?

 kg

1 mark



**18**Circle the number **closest** in value to **0.1**

0.01

0.05

0.11

0.2

0.9

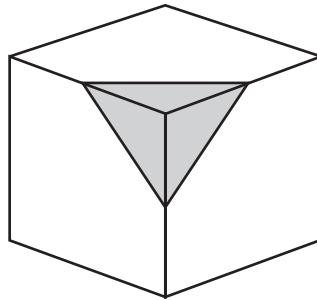


18

1 mark

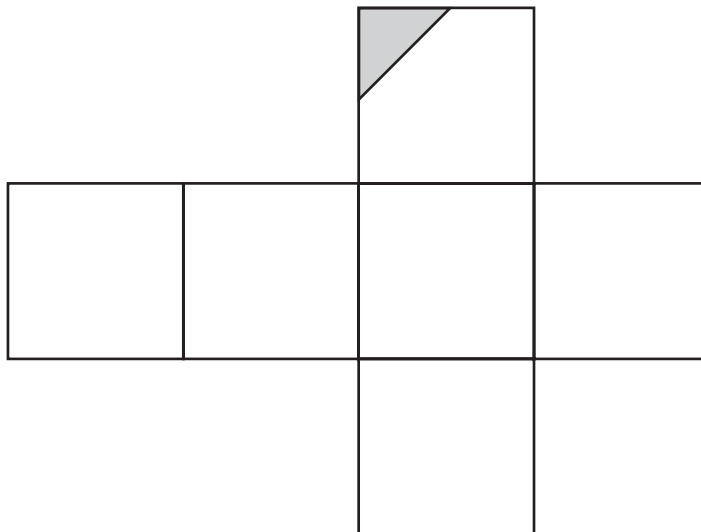
**19**

A cube has shaded triangles on three of its faces.



Here is the net of the cube.

Draw in the two missing shaded triangles.



19

1 mark

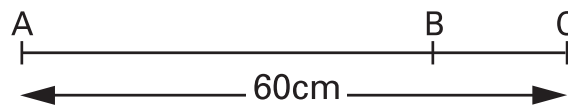


**20**

Write in what the missing numbers could be.



$$170 + \boxed{\phantom{000}} = 220 - \boxed{\phantom{000}}$$

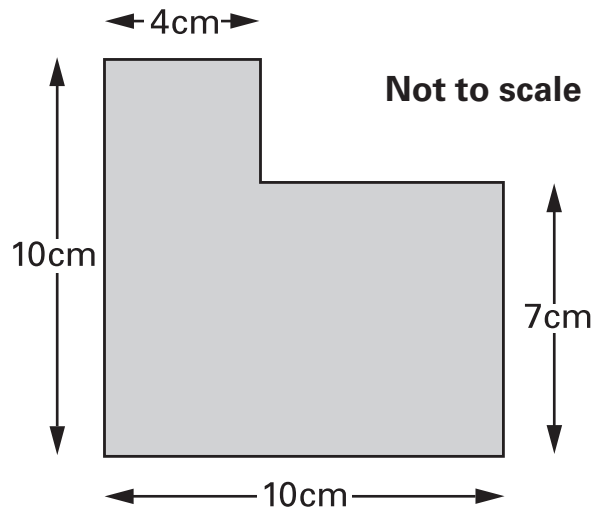
20  
1 mark**21****Not drawn to scale**The distance from **A to B** is three times as far as from **B to C**.The distance from **A to C** is **60 centimetres**.Calculate the distance from **A to B**.



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

**cm**
21  
2 marks

22

What is the **area** of this shape?



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

22  
2 marks



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QCA/02/864 (pupil pack)

QCA/02/858 (mark schemes pack)