

|                  | OXFORD CAMBRIDGE AND RSA EXAMINATIONS<br>General Certificate of Secondary Education  |  |                     |            |
|------------------|--|--|---------------------|------------|
|                  | MATHEMATICS C<br>(Graduated Assessment)<br>MODULE M6 – SECTION B   |  | 1966/2336B          |            |
|                  |  |  |                     |            |
|                  | Wednesday<br>Candidates answer or<br>Additional materials:<br>Geometrical instru<br>Tracing paper (opt<br>Scientific or graphi | 28 JUNE 2006<br>the question paper.<br>ments<br>ional)<br>cal calculator | Morning             | 30 minutes |
| Candidat<br>Name | e  |  |                     |            |
| Centre<br>Number |  |  | Candidate<br>Number |            |

TIME 30 minutes

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- In many questions marks will be given for a correct method even if the answer is incorrect.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.

### **INFORMATION FOR CANDIDATES**

- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 8.
- Use the  $\pi$  button on your calculator or take  $\pi$  to be 3.142 unless the question says otherwise.

FOR EXAMINER'S USE

Section B

## This question paper consists of 7 printed pages and 1 blank page.

Formula Sheet



Area of trapezium =  $\frac{1}{2}(a+b)h$ 

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(a) 'The higher the mid-day temperature, the fewer people eat a hot meal.'

Which diagram could represent this?

(**a**) .....[1]

(b) Which diagram shows no correlation?

**(b)** .....[1]

[Turn over

9 Calculate.

(a) 
$$\sqrt{28 \cdot 75 - 7 \cdot 59}$$

(**a**) .....[1]

**(b)** 
$$\frac{4 \cdot 9^2}{7 \cdot 8 - 5 \cdot 67}$$

Give your answer correct to 1 decimal place.



(c) .....[3]

11 (a) Petra bought a new car for  $\pounds 14500$ .

At the end of the first year its value had decreased by 28%.

Calculate its value at the end of the first year.



(a) £.....[3]

(b) Paul is making grey paint.

He mixes black and white paint in the ratio 1 : 3. He makes 35 litres of grey paint.

How much white paint does he use?

(**b**) .....litres [2]

[Turn over



The diagram shows the course, ABCA, of a relay race.

(a) (i) Make a scale drawing of the course. Use a scale of 1 cm to 2 km. AB has been drawn for you.

12

A -– B

[2]

(ii) Pat ran from C to A.

Use your scale drawing to find how far she ran.

(a)(ii) .....km [2]

(b) Mike ran the 14 km from A to B. His average speed was 11.2 km/h.

> How long did he take? Give your answer in hours and minutes.

> > (**b**) ..... hours ..... minutes [3]

13 A circular pond has a diameter of 6.5 m.

Calculate the circumference of the pond.

.....m [2]

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