

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)



1966/2333A

MODULE M3 – SECTION A

Wednesday **29 JUNE 2005** Morning 30 minutes

Candidates answer on the question paper.

Additional materials:

Geometrical instruments

Tracing paper (optional)

Candidate
Name

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Centre
Number

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Candidate
Number

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TIME 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers on the dotted lines unless the question says otherwise.
- 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.
- There is a space after most questions. Use it to do your working. 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 in the grey area between the pages.
- **DO NOT WRITE IN THE AREA OUTSIDE THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.**

INFORMATION FOR CANDIDATES

- 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.

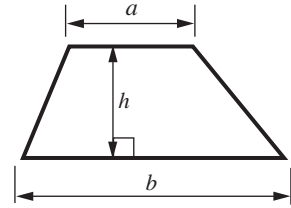
WARNING
 You are not allowed to use a
 calculator in Section A of this paper.

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

This question paper consists of 8 printed pages.

Formula Sheet

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



1 Work out.

(a) $24 + (5 \times 2)$

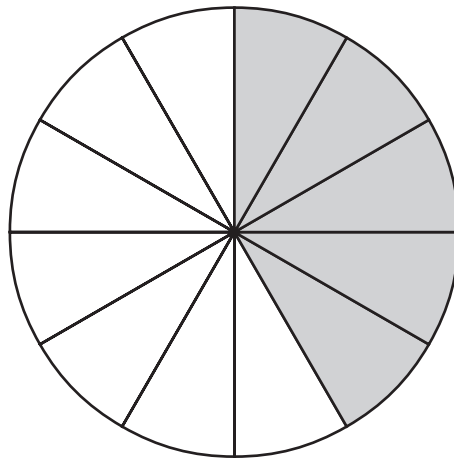
(a)[1]

(b) $(9 \times 3) - (20 \div 5)$

(b)[2]

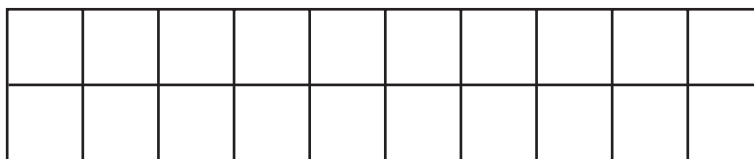
3

2 (a) What fraction of this shape is shaded?



(a)[1]

(b) (i) Shade $\frac{3}{10}$ of this shape.



[1]

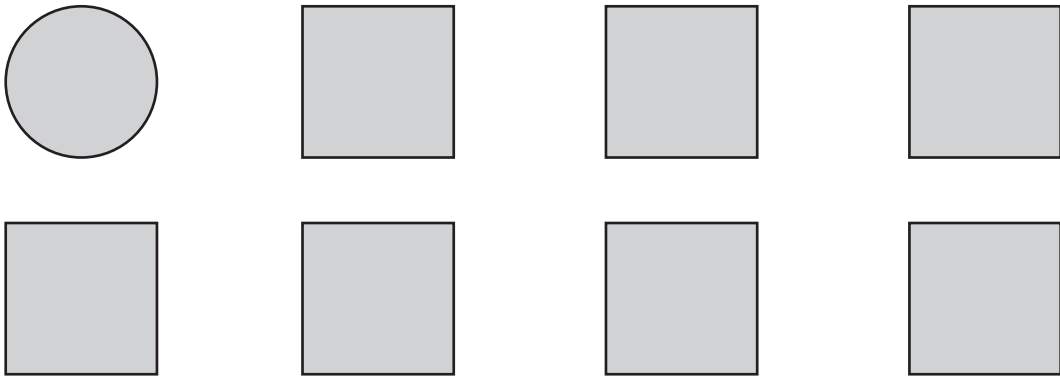
(ii) Write $\frac{3}{10}$ as a decimal.

(b)(ii)[1]

3

[Turn over

3 Hannah has these eight shapes.



She picks one shape without looking.

(a) Hannah says

'The probability I pick a circle is $\frac{1}{2}$.'

Is Hannah right or wrong?
Give a reason for your answer.

..... because

.....[1]

(b) On the scale below, mark with arrows,

the probability she picks a square, S, [1]

the probability she picks a triangle, T. [1]

Label the arrows S and T.



- 4 (a) Mary bought 8 strawberry plants.
She paid 70p for each plant.

Work out the total cost of 8 plants.
Give your answer in pounds.

(a) £.....[2]

- (b) Peter bought some raspberry canes.
He paid £16 for 10 canes.

Work out the cost of one cane.

(b) £[2]

4

5 Solve.

(a) $4x = 12$

(a)[1]

(b) $y - 10 = 15$

(b)[1]

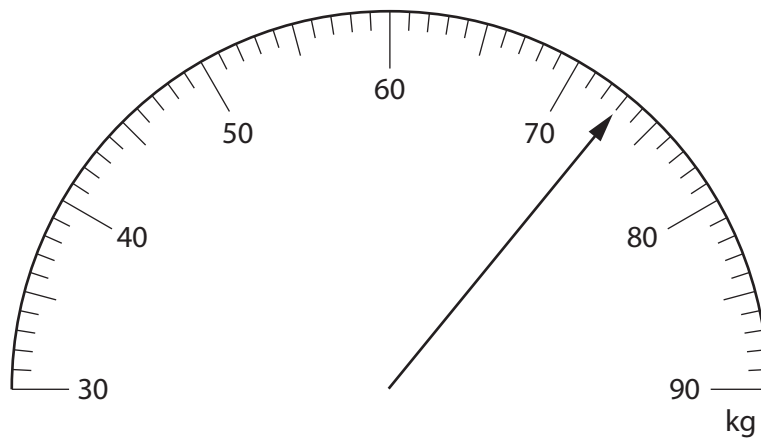
(c) $21 = t + 8$

(c)[1]

3

[Turn over

6 (a)



Ashraf weighs himself.
The scale shows Ashraf's weight.

How much does he weigh?

(a)kg [1]

(b)



Ashraf now weighs himself carrying his rucksack.
The scale now shows 90 kg.

How much does the rucksack weigh?

(b)kg [1]

2

- 7 (a) Martin recorded the temperatures, in degrees Celsius, each morning.
Here are his results for five days.

Monday	Tuesday	Wednesday	Thursday	Friday
2	-4	-1	3	0

Write these temperatures in order lowest first.

..... lowest [2]

- (b) The temperature at 6am on Tuesday was 4°C.
By 11am it had gone up by 5 degrees.

What was the temperature at 11am?

(b)°C [1]

3

8 Ismail buys a packet of 40 balloons for a party.

(a) 25% of them are blue.

Work out 25% of 40.

(a)[2]

(b) $\frac{3}{5}$ of them are yellow.

Work out $\frac{3}{5}$ of 40.

(b)[2]

4
