

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)



1966/2335A

MODULE M5 – SECTION A

Wednesday **29 JUNE 2005** Morning 30 minutes

Candidates answer on the question paper.

Additional materials:

- Geometrical instruments
- Tracing paper (optional)
- Pie chart scale (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.

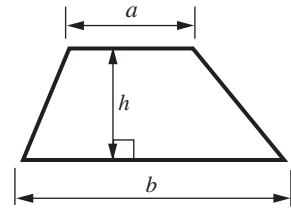
WARNING
**You are not allowed to use a
calculator in Section A of this paper.**

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

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

Formula Sheet

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



- 1 (a) (i) Jade buys 41 litres of petrol.
Each litre costs 82.9p.

Write down a calculation she could do in her head to estimate the total cost.

..... = £[2]

- (ii) Is your estimate bigger or smaller than the exact cost?
Explain how you decide.

..... because

.....[1]

- (b) Jade's car is 16 feet long.

About how many metres is this?

(b)m [1]

4

- 2 Work out.

(a) 6^2

(a)[1]

(b) $\sqrt{64}$

(b)[1]

2

- 3 (a) Write 35% as a decimal.

(a)[1]

- (b) Write this fraction in its simplest form.

$$\frac{24}{33}$$

(b)[1]

- (c) Write these fractions in order, starting with the **smallest**.
Show how you decide.

$$\frac{5}{6} \quad \frac{3}{5} \quad \frac{17}{30} \quad \frac{2}{3}$$

.....
smallest

[3]

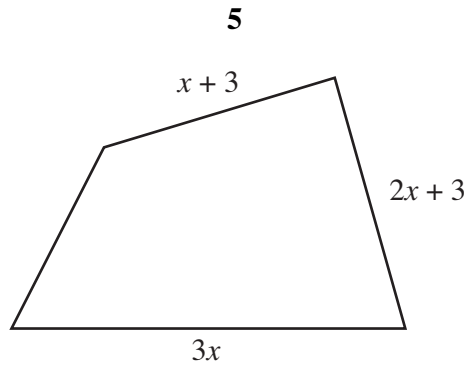
- (d) Work out.

$$\frac{11}{12} - \frac{1}{4}$$

(d)[2]

7

4 (a)



The perimeter of this quadrilateral is $8x + 7$.

Write down, as simply as possible, an expression for the missing length.

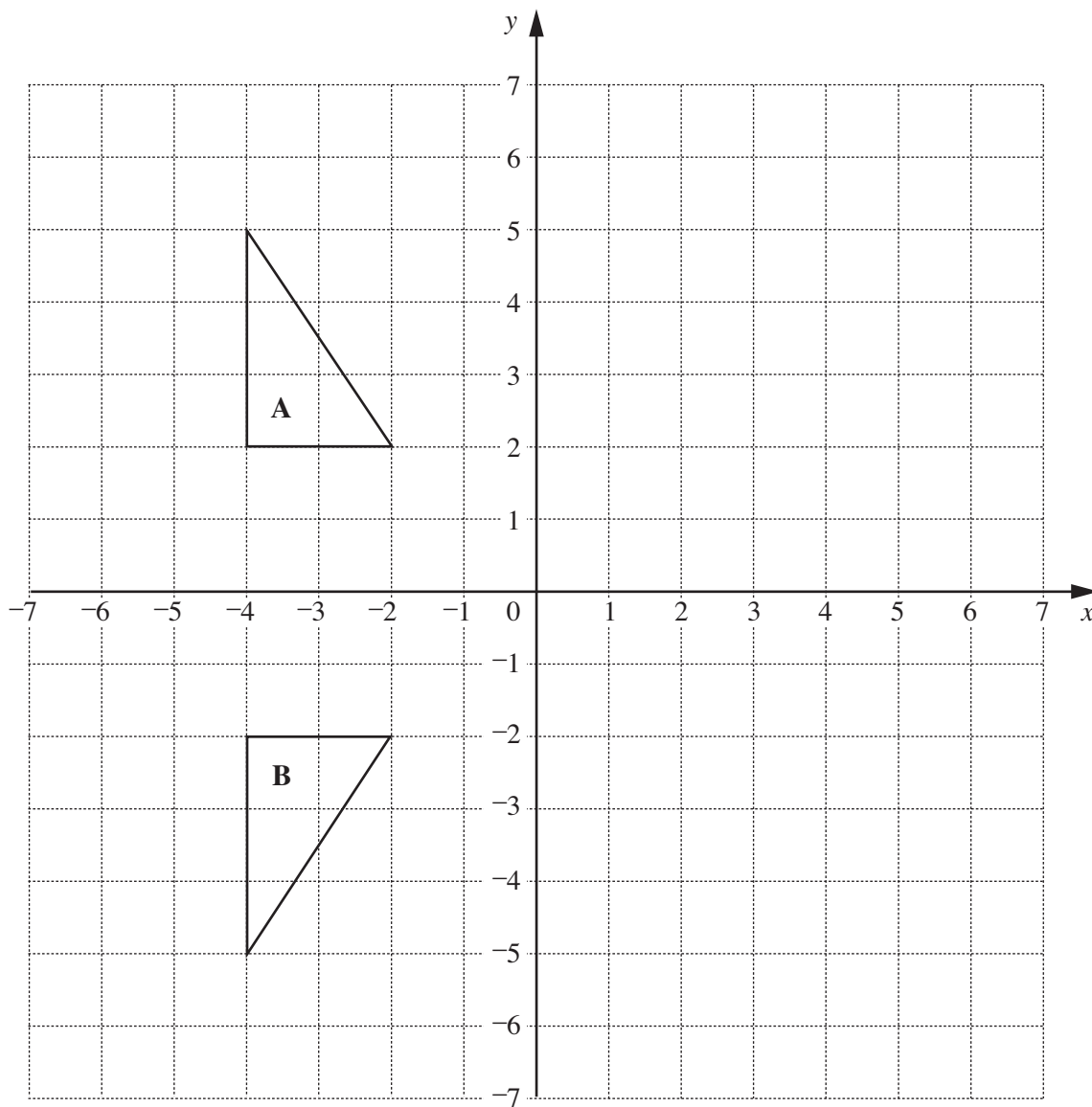
(a)[2]

(b) The perimeter of a different shape is $7y + 6$.

Work out $7y + 6$ when $y = 4$.

(b)[2]

4



(a) Describe the **single** transformation that maps triangle **A** onto triangle **B**.

.....
[2]

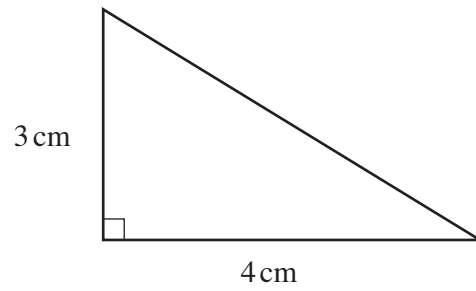
(b) Translate triangle **A** 7 units right and 2 units down.
 Label the image **C**.

[1]

(c) Rotate triangle **A** 180° about the origin.
 Label the image **D**.

[2]

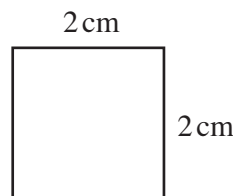
- 6 (a) Work out the area of this triangle.



Not to scale

(a)cm² [2]

(b)



Bill says the area of this square is 4 cm².
Alec says the area of the square is 400 mm².
They are both correct.

Complete this sentence.

$$1 \text{ cm}^2 = \dots\dots\dots \text{ mm}^2$$

[1]

3
