

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**General Certificate of Secondary Education**

**MATHEMATICS C**  
**(Graduated Assessment)**



**1966/2335B**

MODULE M5 – SECTION B

Wednesday

**28 JUNE 2006**

Morning

30 minutes

Candidates answer on the question paper.

Additional materials:

- Geometrical instruments
- Tracing paper (optional)
- Pie chart scale (optional)
- Electronic calculator

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.
- 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**

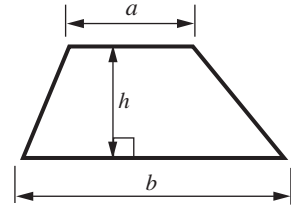
- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 8.

<b>FOR EXAMINER'S USE</b>	
<b>Section B</b>	

**This question paper consists of 8 printed pages.**

**Formula Sheet**

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



**PLEASE DO NOT WRITE ON THIS PAGE**

- 8 A party of schoolchildren and two teachers visit a museum.  
This is a list of their ages.

9 9 9 9 10 10 10 10 11 11 11 11 11 34 45

- (a) Complete this table.

Mode	Median	Mean
11	10	

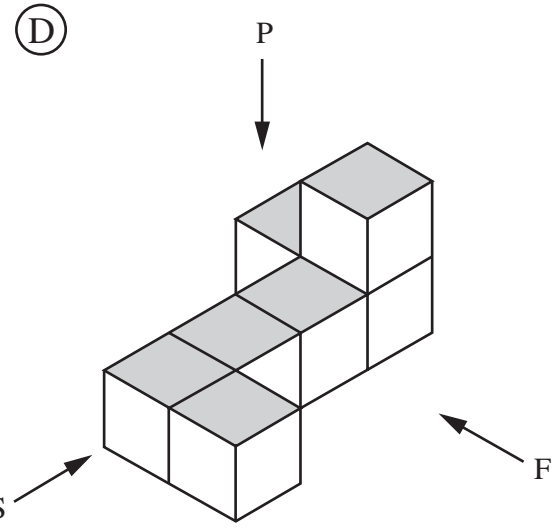
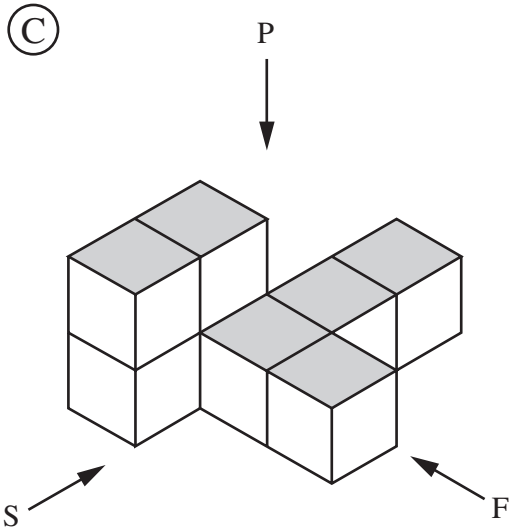
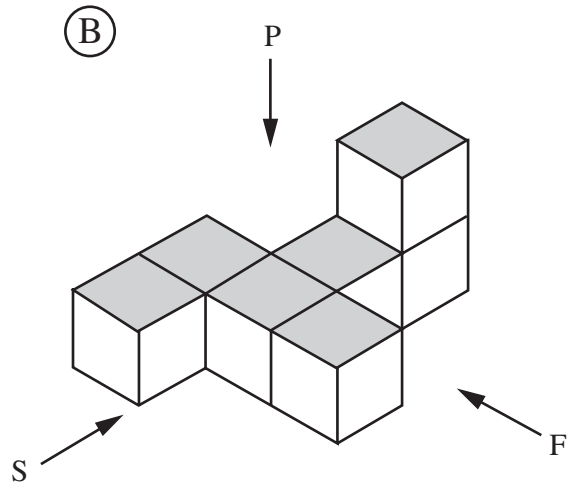
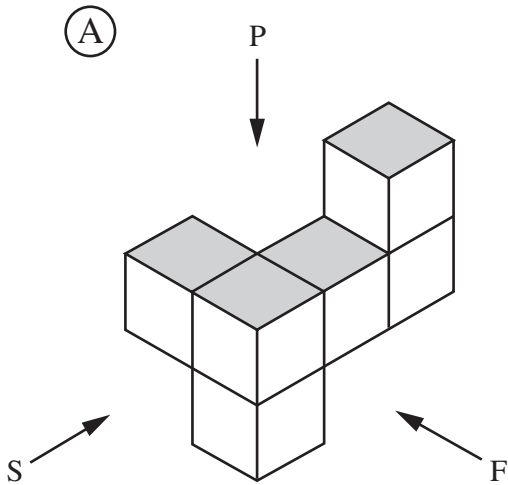
[3]

- (b) Explain why the mean is not the best value to use for the average age of this group.

.....  
.....[1]

4
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9 (a) Here are four solids, A, B, C and D.

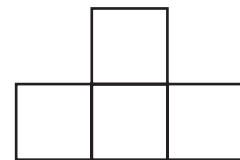
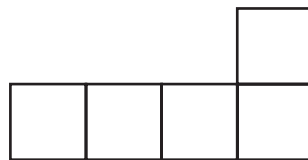
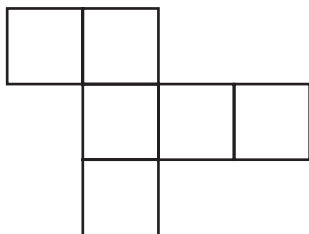


Here are three views of **one** of the solids.

Plan view (from P)

Front view (from F)

Side view (from S)

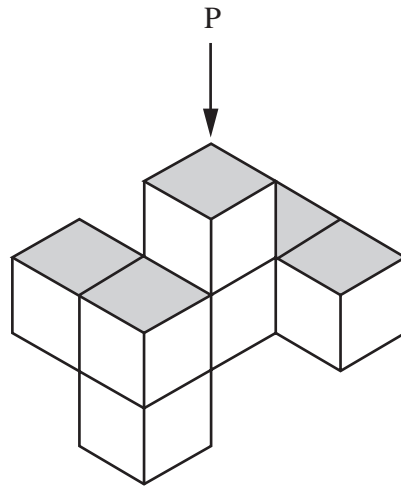


Which solid is it?

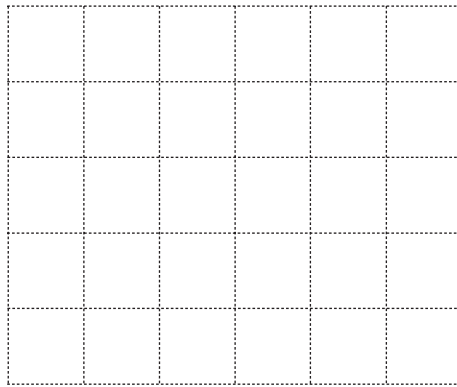
(a) .....[2]

5

- (b) Here is another solid.  
It is made from seven one-centimetre cubes.



Draw the plan view (from P).



[2]

4
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[Turn over

- 10 (a) (i) A cruise ship has 850 cabins.  
60% of the cabins have a sea view.  
Of those cabins with a sea view,  $\frac{2}{5}$  have a balcony.

How many cabins have both a sea view and a balcony?



(a)(i) .....[4]

- (ii) The cruise ship has 1450 passengers on board.  
522 of these are children.

What is 522 out of 1450 as a percentage?

(ii) .....% [2]

- (b) Another cruise ship has 2864 passengers and crew on board.

Write 2864 correct to 1 significant figure.

(b) .....[1]

7
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11 Solve.

(a)  $9 = x - 6$

(a) .....[1]

(b)  $4x = 20$

(b) .....[1]

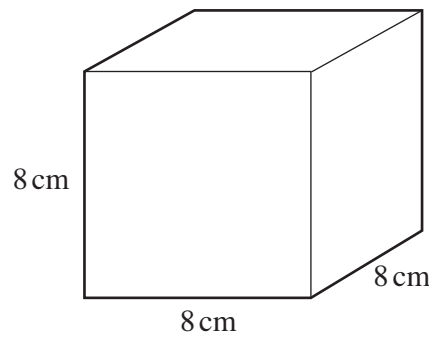
(c)  $2x - 7 = 8$

(c) .....[2]

4
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**TURN OVER FOR QUESTION 12**

12 This diagram shows an 8 cm cube.



- (a) Calculate the volume of the cube.  
Give the units of your answer.

(a) .....[3]

- (b) Calculate the **total** surface area of the cube.

(b) .....cm<sup>2</sup> [3]

6
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