

B274B

Morning Time: 30 minutes

Candidates answer on the question paper Additional materials: Geometrical instruments Tracing paper (optional) Electronic calculator



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Candidate Forename	Candidate Surname
Centre Number	Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Do **not** write outside the box bordering each page.
- Write your answer to each question in the space provided.

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.
- Section B starts with question 8.
- You are expected to use a calculator in Section B of this paper.

FOR EXAMINER'S USE

SECTION B

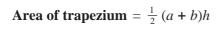
This document consists of **8** printed pages.

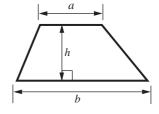
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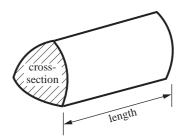
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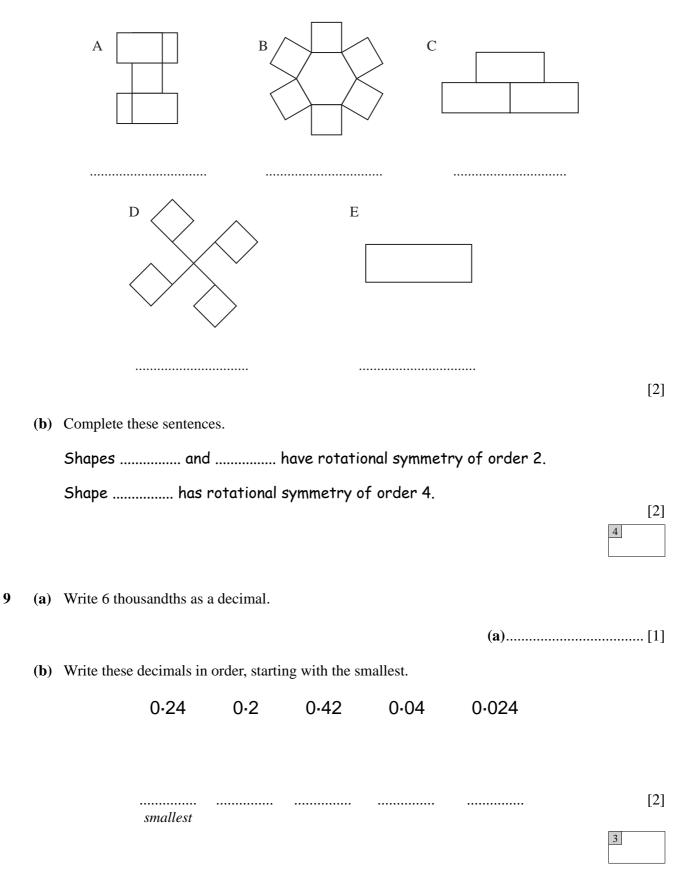




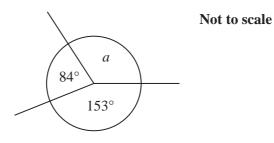
Volume of prism = (area of cross-section) \times length

PLEASE DO NOT WRITE ON THIS PAGE

8 (a) Which of these shapes have rotational symmetry? Write *Yes* or *No* under each shape.



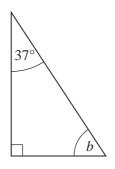
10 (a)



Work out angle *a*.

(**a**)° [1]

(b)

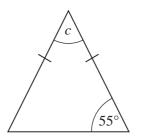


Not to scale

Work out angle *b*.

(**b**)° [2]

(c) This is an isosceles triangle.



Not to scale

Work out angle c.

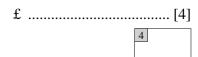


11 Tariq receives this garage bill.



Tariq pays the total bill in three equal payments.

How much is each payment? Show your working clearly.



12 (a) Terry owns a barber's shop.

The table shows the number of customers he has each day in one week.

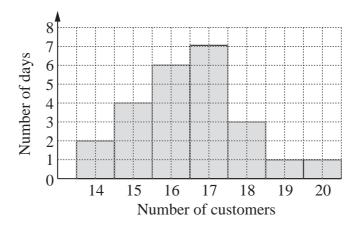
Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Number of customers	23	25	19	21	28	37

(i) Work out the range of the number of customers.

(a)(i)[1]

(ii) Work out the mean number of customers per day.

(b) Bev owns a hair salon.The bar chart shows the number of customers she has each day for one month.



On how many days were there **more than** 17 customers?

(b)[1]

(c) The mean number of customers per day in Bev's salon is 16.5 and the range is 6.

Write two different statements comparing the number of customers per day that Terry and Bev have.

		Statement One
		[1]
		Statement Two
		[1]
		7
13	(a)	Cookies cost 35p each.
		Write an expression for the total cost, in pence, of <i>x</i> cookies.

(b) Sue bakes *n* muffins. Her children eat 5 of these muffins.

Write an expression for the number of muffins left.

(**b**)[1]

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