

- 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.
- 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.
- Use the π button on your calculator or take π to be 3.142 unless the question says otherwise.

FOR EXAMINER'S USE

SECTION B

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

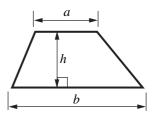
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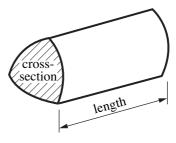
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2

Formulae Sheet



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



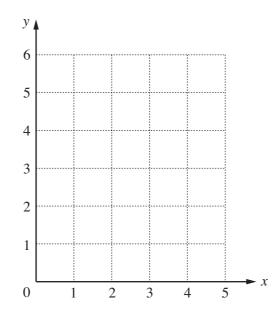
Volume of prism = (area of cross-section) \times length

8 (a) Complete this table of values for x + y = 4.

x	0	1	2	3	4
у		3			

[1]

(**b**) Draw the graph of x + y = 4.





9 (a) Solve.

(i) 2x + 3 = 8

(a)(i).....[2]

(ii) 5x + 2 = 23 - 2x

(ii)[3]

(**b**) Multiply out.

5(2x - 3)

(**b**)[1]

10 Calculate.

(a)
$$\sqrt{24.1 - 12.54}$$

(**a**)[1]

(b)
$$\frac{9 \cdot 8^2}{13 \cdot 4 + 8 \cdot 1}$$

Give your answer correct to 2 decimal places.

(b)[2]

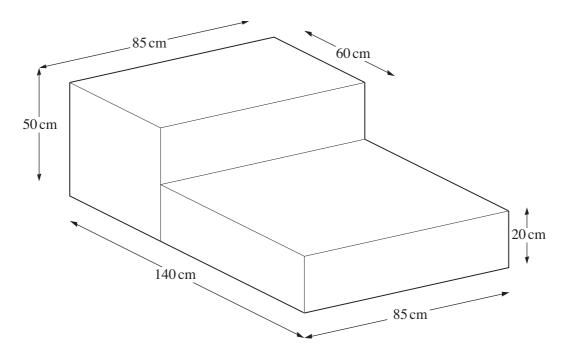
(c) The answer to a calculation is $2 \cdot 4$ hours.

Write this time in hours and minutes.

(c) hours minutes [1]

6

11 Pino has made two steps from concrete blocks. Each block is a cuboid.



Work out the total volume of concrete used. Give the units of your answer.

......[4]

- 12 Teresa, Robert and Barbara each buy some carpet at the same price per square metre. Teresa pays £456 for 16 square metres.
 - (a) Robert buys 35 square metres of carpet.

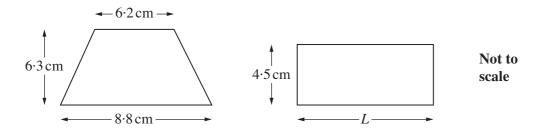
How much does he pay?

(a) £.....[2]

(b) Barbara pays $\pounds 655 \cdot 50$.

How many square metres does she buy?

13 The area of the trapezium is the same as the area of the rectangle.



Calculate the length, L, of the rectangle

..... cm [4]

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