

- 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 7.
- You are expected to use a calculator in Section B of this paper.

FOR	EXAMINER'S	USE

SECTION B

TOTAL

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

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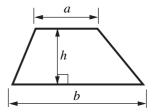
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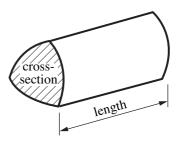
[Turn over

2

Formulae Sheet



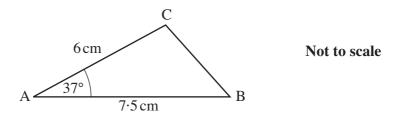
Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = (area of cross-section) × length

PLEASE DO NOT WRITE ON THIS PAGE

7 Here is a sketch of a triangle.



(a) Draw triangle ABC accurately below. The base, AB, has been drawn for you.

A _____ B

(b) Measure the length BC.

(b) cm [1]

[2]

8 (a) Here is a formula.

w = 4z - 3

Calculate the value of *w* when z = 7.

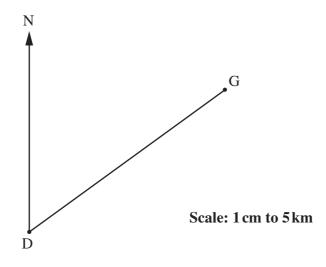
(a)[2]

(b) Here is another formula.

$$P = 5s + 3t$$

Calculate the value of *P* when s = 17 and t = 14.

- **(b)**[2]
- 9 The scale diagram shows the position of two towns, Doddington (D) and Goulding (G).

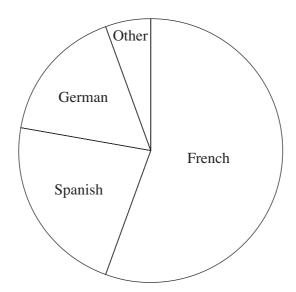


(a) Measure the bearing of Goulding from Doddington.

(**a**)° [1]

(b) Find the real distance from Doddington to Goulding.

10 Abi asked 90 people which foreign language they would like to learn. Her results are shown in the pie chart below.



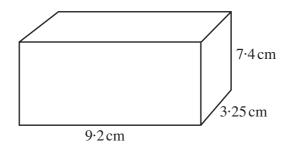
(a) 50 people chose French.

Explain why the angle for French is 200°.

......[2]

(b) Find how many people chose Spanish.

- 6
- **11** Calculate the volume of this cuboid.



12 The contestants for a TV show must go through two selection rounds. There are 600 contestants in Round 1. 45% of these go on to Round 2. The rest go home. $\frac{1}{5}$ of those in Round 2 go on the TV show. The rest go home.

How many of these 600 contestants go on the TV show? Show all your working.

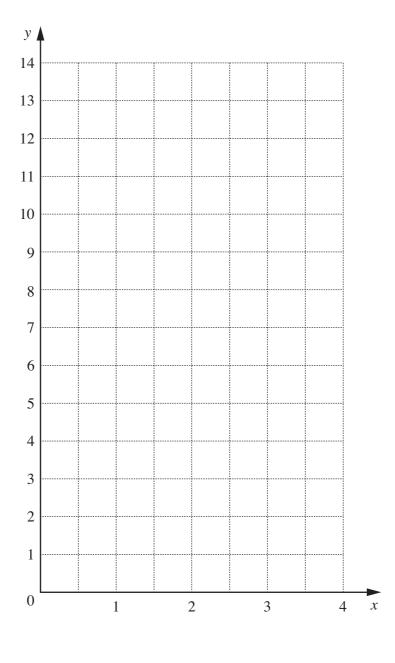
.....[3]

13 (a) Complete this table of values for y = 3x + 2.

x	0	1	2	3	4
у	2	5			14

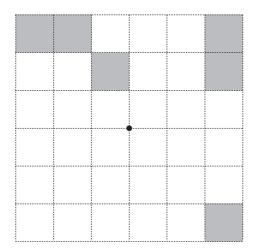
[1]

(b) Plot these points on the grid and draw the graph of y = 3x + 2.



[2]

TURN OVER FOR QUESTION 14



Complete the above pattern by shading 6 more squares so that the pattern has rotation symmetry of order 4.

[3]

14

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