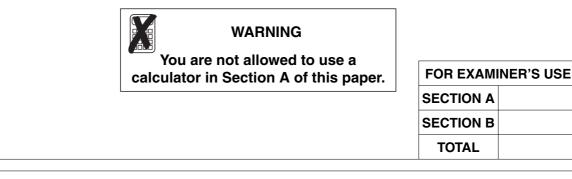


- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer all the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

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.



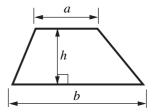
This document consists of **8** printed pages.

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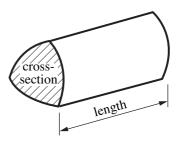
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2

Formulae Sheet



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



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

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- 1 Alice (A), Brian (B), Carol (C) and Denzel (D) are the four members of a quiz team. One of them is to be captain, and another vice-captain.
 - (a) Complete the table to show all the possible choices for captain and vice-captain.

Captain	Vice-captain
А	В
А	С

(b) Each pair is equally likely to be chosen.

Write down the probability that Brian is chosen as captain or vice-captain.

(b)[1]

[2]

2	The average attendance at Bilton Rovers' home games is 30465.		
	(a)	Wri	te 30 465 correct to
		(i)	the nearest hundred,
		(ii)	(a)(i)[1] one significant figure.
			(ii)[1]
	(b)		on Rovers play 19 home games in a season. ume that there are 30 465 at each home game.
			te down a calculation you can do in your head, stimate the total attendance at home games in a season.
		((b) Total attendance =
	(c)	Her	e are the attendances at Canwick United's home games in October.
			20 142 19 765 25 234 14 012 22 895
		(i)	Find the median attendance.
			(c)(i)[1]
		(ii)	For the attendance at Darton City's home games in October:
			the median was 19834the range was 7127
			The attendance at Canwick United was more varied.
			Explain how you know this.
			[1]

3 (a) Solve.

(i) x + 7 = 18

(ii) 25 = 3x + 1

(a)(i)[1]

(ii)[2]

(**b**) Simplify.

6a + 15b + 3a - 4b

4 (a) Complete the following.

$$\frac{36}{40} = \frac{\boxed{10}}{10}$$
^[1]

(b) Complete this table.

Fraction		Decimal		Percentage
$\frac{9}{10}$	=	0.9	=	%
$\frac{3}{100}$	=		=	3%
	=	0.53	=	53%

5 (a) Work out.

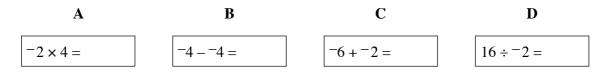
 $2^4 + 3^2$

(a)[2]

[3]

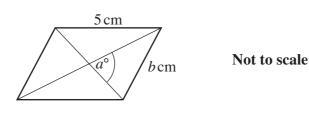
(b) Three of these calculations have the same answer.

Which one has a different answer? Show how you decide.



(b)[2]

6 (a) Here is a rhombus.



Write down the values of *a* and *b*.

(a) $a = \dots$

b =[2]

(b) Here are some properties of a quadrilateral.

- Opposite angles are equal
- Opposite sides are equal

Does this mean that the quadrilateral is a rectangle? Explain your answer.



because	
	[1]

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