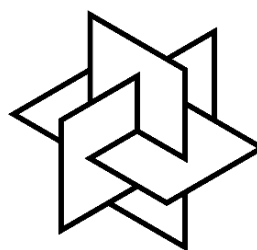

CE AT 13+

MATHEMATICS



ISEB
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Examinations Board

Core Calculator Specimen Paper Mark Schemes

Date

Information

This is a suggested, not prescriptive, mark scheme.

Full marks should not be awarded to answers unsupported by necessary working.

Marks should be deducted for mathematically incorrect working.

A maximum of 1 mark per question should be deducted for incorrect/missing units up to a maximum of 3 marks per paper. (Excluding explicit units questions.)

A maximum of 1 mark per question should be deducted for incorrect rounding up to a maximum of 3 marks per paper (excluding explicit rounding questions.)

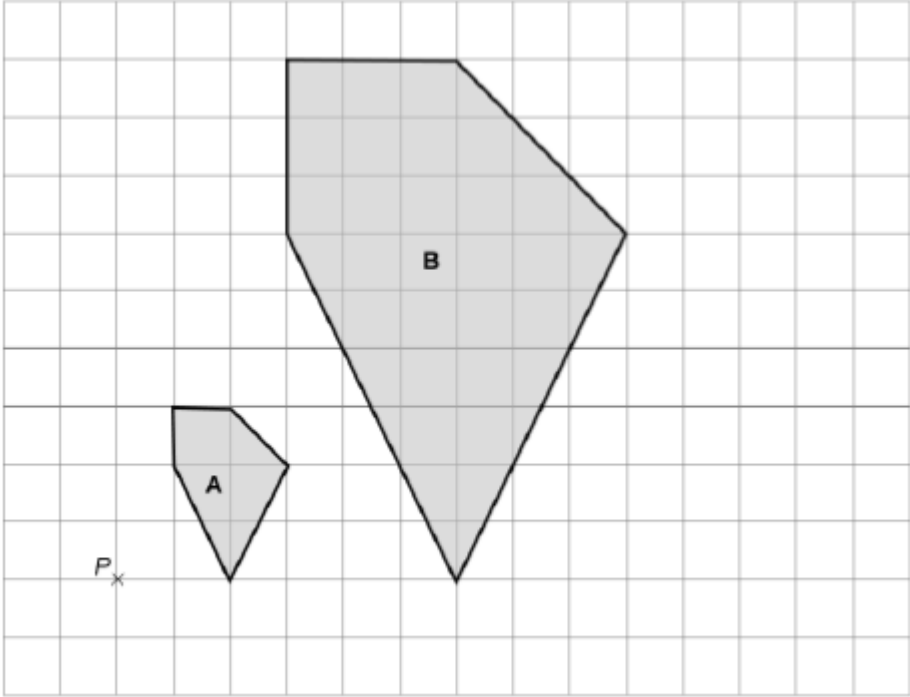
Credit should be given for good attempts and ideas.

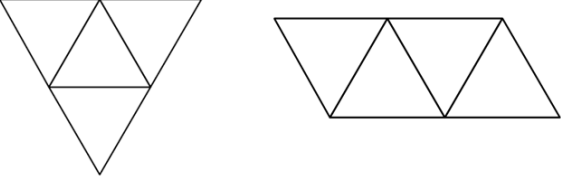

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CORE MATHEMATICS: CALCULATOR

Q.	Answer		Mark	Additional Guidance
1.	a)	i) 24.1729 ii) 1.625	4	A: 4
	b)	i) 24.17 ii) 1.63	2	A: 2
2.	a)	4 : 3	2	A: 2 no working required
	b)	36	3	M: 2 A: 1
3.	i)	23, 27, 31	2	A: 2
	ii)	2, 1, $\frac{1}{2}$	2	A: 2
4.	i)	527.5 ii) 7.3	4	A: 4
	iii)	46.8 iv) -55.32		
5.	F	T	2	A: 2 lose 1 mark for each error
	F	F		
6.	i)	parallelogram	2	A: 2
	ii)	kite		
7.	a)	£142 800	3	M: 2 A: 1 must have units
	b)	15%	2	M: 1 A: 1 must have % sign
8.	a)	i) $2s$ ii) t^2	2	A: 2
		iii) $6a + 8$ iv) $21c^3$	4	A: 4
	b)	i) $11e - 8$ ii) $16 - 9z$	4	M: 2 A: 2
	c)	i) $6(3x - 2)$ ii) $5(5y + 1)$	3	A: 3
9.	$w = 65^\circ$		3	M: 2 A: 1
10.	i)	50 cm ii) 154 m^2	6	M: 4 A: 2 must have units
11.	i)	mode = 4	1	M: 4 A: 5
	ii)	mean = 6.5	3	
	iii)	median = 7	3	
	iv)	mode: does not represent the set well as it is the smallest	2	

Q.	Answer	Mark	Additional Guidance
12. a)	$w = 54^\circ$	5	M: 4 A: 1
b)	$y = 176^\circ$	3	M: 2 A: 1
13.			
a)	shape B drawn and labelled	3	A: 3
b)	i) 31.5 cm^2 ii) 23.67 cm	4	M: 2 A: 2 must have units
14. a)	32.5 km/h	3	M: 2 A: 1 must have units
b)	49 km	3	M: 2 A: 1 must have units
15. a)	43 cm	1	A: 1 must have units
b)	i) 110 N ii) 36.5 cm	4	M: 2 A: 2 must have units

Q.	Answer	Mark	Additional Guidance
16.	20	4	M: 3 A: 1
17.	5	3	M: 2 A: 1 expect equation $4x + 3 = 23$
18.		4	A: 4 need not be accurate deduct marks for extra nets
19.	15	4	M: 3 A: 1  $5+4+3+2+1$
20.	£6 568.50 or £6 568.60	4	M: 3 A: 1
Total		100	