

Bounds

Mark Scheme 1

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended 🕜 ,
Topic	Number
Sub-Topic	Bounds
Booklet	Mark Scheme 1
	\mathcal{C}
Time Allowed:	60 minutes
Score:	/50
Percentage:	/100
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Grade Boundaries:	N

A*	Α	В	С	D	Е	U
>85%	75%	60%	45%	35%	25%	<25%

1	28.35 cao	2	B1 for 9.45 seen or M1 for (9.4 + 0.05) × 3			
2	$\frac{11}{30}$ cao	3	Oi	2 for $\frac{33}{90}$ oe as final answer r M1 for $36.\dot{6} - 3.\dot{6}$ or $36.6^{r} - 3.6^{r}$ oe r B1 for $\frac{k}{90}$		
				90		
3 (a) 10.4675 cao nfww				for 3.95 or 2.65 seen /11 for (4.0 – 0.05) × (2.7 – 0.05)		
(b)	34 nfww	2		or 7.65 or 0.225 seen 1 for $(7.6 + 0.05) \div (0.23 - 0.005)$		
			•			
4	4 87 cao nfww		3 B2 for 87.04 or 87.0 nfww or M1 for 500.5 or 5.75 seen or for (500 + 0.5) ÷ (5.8 – 0.05) and B1 for truncating their decan integer			
		,	•			
5	44	2	В	for 75.5 or 119.5 seen		
6	6 7		2	B for 120.5 or 113.5 seen		
7	16.2 16.6 nfww		3 M for two of 2.35, 5.75, 2.45, 5.85 seen or 2 × (5.8 – 0.05 + 2.4 – 0.05) or 2 × (5.8 + 0.05 + 2.4 + 0.05) A1 16.2 or 16.6 in either answer space If zero scored SC2 for both correct reversed answers provided 16.6 nfww			

3		18 cao nfww	3	M2 for $\frac{877.5}{7.5 \times 6.5}$ or B1 for any two of 877.5, 7.5 and 6.5 seen					
9	9 95.5 96.5 in correct places cao		ao	2	B1 for 95.5 or 96.5 in correct place or fanswers reversed				
						OIL.			
10		101.4, 102.6			2	M1 for 8.45 and 8.55 seen If 0 scored, SC1 for one correct value in correct position on answer line or for two correct reversed answers			
	- \			×	(^	*			
11		427.8			M2 for $2 \times (127.35 + 86.55)$ or				
		427.4	2			$2 \times (127.35 + 86.45)$			
		The little	>			1 for two of these figures: 35, 86.55, 127.25, 86.45 seen			
		· ha				ro scored, SC2 for upper bound 427.8 or er bound 427.4 provided nfww			
, ,		all his	,						
12	12 435, 445 cao			2	2	B for one value in the correct place or SC1 for both values correct but reversed			
	1								
13	-	71.4025 cao 73.1025 cao		3	M	for 8.45 and 8.55 seen 1 for their LB ² [π] or their UB ² [π] 0 scored, SC1 for one correct.			

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14	48.15, 48.45 cao		B1 E If 0 t		for 16.0 and 16.15 soi	
15	6.1 final answer			2	M for $[\sqrt{37.8225}=]$ 6.15	
16	16 70		3	3 B1 24.5 or 0.35 seen M1 their LB ÷ their UB		
		l		I		
17 2	$.119 \times 10^8$ cao	3		81500 1 their L	oe LB × 2600	
,			l l			
18 249	0.5 [≤ <i>j</i> <] 250.5 cao	2	B1 for	either, o	or both correct but reversed	
						1
19	30.7975 cao	2	M	6.35 and	4.85 seen	
	,	,	l			
20	33 cao www					