Junior Lyceum Entrance Examination into Form I - 2002
Mathematics Marking Scheme

Question	Requirements	Mark	Additional Guidance
1 i	27	1	
ii	173	1	
iii	5	1	
iv	7	1	
2 a	0.78, 0.22	2	both required
b	0.125 kg	1	
c	$\frac{2}{3}$ o.e.	1	
3 a	206.9	1	
b	Dividing by 4	1	or any other valid method
	Multiplying by 2	1	
	366	1	
4 i	Adding and dividing by 3	1	
	4287	1	
ii	Subtracting 3595 from average seen or implied	1	
	692	1	
5 i	Length = 7.5 cm	1	
	Breadth = 3 cm	1	
ii	Correct method for finding the perimeter	1	
	21	1	
6 i	7.9	1	
ii	0.025 (o.e.)	1	
iii	570	1	
iv	0.1 (o.e.)	1	
7	37	4	
8 a	$\frac{1}{8}$	1	
b i	$\frac{1}{4}$ o.e.	1	
ii	Attempt to Change fraction into percentage	1	
	75%	1	.
9 i	Dividing by 60	1	
	1 km	1	
ii	Dividing by 2 o.e.	1	
	30 seconds	1	
10 i	Converting to a common unit seen or implied	1	
	10	1	
ii	Any suitable method seen or implied	1	
	3	1	.

Question	Requirements	Mark	Additional Guidance

11	a	75°	1	
		120°	1	
	b i	118° seen or implied	1	Subtracting 28° from 90° gains 2 marks
		Subtracting from 180°	1	
		62°	1	
	ii	Correct explanation	1	
12	i	240 ÷ 15	1	
		16c	1	
	ii	16c × 45 or Lm2.40 × 3	1	
		Lm7.20	1	
	iii	(100 × 15) – (1 × 15)	1	or 99 × 15 or any other valid method
		1485	1	
13	i	Adding up all data	1	
		480	1	
	ii	$24/480$, $1/20$	1, 1	
	iii	$\frac{24}{480}\times 100$ or $\frac{1}{20}\times 100$	1	
		5%	1	
14	i	Three	1	
		South	1	
		West	1	
	ii	Any correct answer	3	Accept words such as left, right , up, down …
15	i	4, 12, 16	2	
	ii	13 × 4 seen or implied	1	
		52	1	
	iii	Dividing by 4	1	or any other valid method
		7	1	
16	i	50, 35, 85, 95	3	
	ii	Bar graph correctly drawn .	3	
17	a	39.7 (o.e.)	1	
	b	97	1	
	c	50 cm	1	
	d	9 is a factor 243	1	
	e	1387 ÷ 73 = 19	1	
		1387 = (20 × 73) – 73	1	
18	a	8 cm × 8 cm square	2	
	b	Attempt to find centre	1	
		Circle passing through vertices	1	
	c i	Any answer between 11.0 cm and 11.6 cm	1	
	ii	Any answer between 5.4 cm and 5.9 cm	1	

Question	**Requirements**	**Mark**	**Additional Guidance**
19 i.	Division by 8 seen or implied	1	or any other valid method

		6, 2, 3 seen or implied	1	
		Multiplication of $6 \times 2 \times 3$	1	
		36 blocks	1	
	ii.	Any correct method	1	
		24 blocks	1	
20	i.	Subtracting from 24:00	1	or any other valid method
		Adding to 6:30	1	
		8 h 45 min	1	both required correct
	ii.	06:30 + 01:45	1	
		08:15	1, 1	

Legend:

eeoo	every error or omission
f.t.	follow through
o.e.	or equivalent