Junior Lyceum Entrance Examination into Form I - 2007
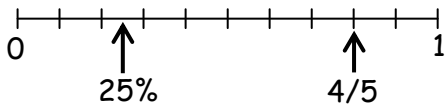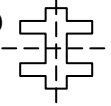# Mathematics Marking Scheme

No	Requirements	Mark	Additional Guidance	No	Requirements	Mark	Additional Guidance
1	3002	1	c.a.o.	2	2·98	1	c.a.o.
3	10852	1	c.a.o.	4	17	1	c.a.o.
5	Any 2 correct odd numbers	1	Both must be correct	6	28	1	c.a.o.
7	c) 550	1	c.a.o.	8	40	1	c.a.o.
9	50	1	c.a.o.	10	115	1	c.a.o.

Question		Requirements	Mark	Additional Guidance
11	a)	Addition seen/implied, 26·63	1, 1	
	b)	Multiplying by 1000 seen/implied, 26630	1, 1	f.t.
12	a)		1, 1	−1 if arrows are not labelled.
	b)	⅘ seen as the largest fraction	1	
		0·4, 25%	1	
13		Eliminating odd numbers	1	Accept any valid method to arrive at a solution.
		Eliminating numbers less than 20	1	
		Selecting all multiples of 7	1	
		42	1	
14	a)	6·4	1	
	b)	1·2	1	
	c)	8·4	1	
	d)	4	1	
15	a) i)	7	1	
	ii)	11	1	
	b)	Adding **and** dividing by 3 seen/implied	1	o.e.
		3·50	1	
16	a) i)	9	1	
	ii)	18	1	
	b)	Drawing up to the 27 ml mark	1	f.t.
	c)	3	1	f.t.
17	a)	5·10	1	
		Doubling **and** adding seen/implied, 5·04	1, 1	
	b)	B	1	f.t.
18	a)	Correct shading	1	
	b)	⁶⁄₁₀ , ⁹⁄₁₅ …	1	o.e.
	c)	>	1	
	d)	15	1	
19	a)	lions	1	Do not penalise for incorrect spelling
	b)	Any correctly described path	3	−1 e.e.o.o.
Question		**Requirements**	**Mark**	**Additional Guidance**

20		a) b)	2, 2	−1 e.e.o.o.
	c)	Attempt to find number of lines of symmetry, 6	1, 1	
21	a)	Adding 30° to 75° seen/implied	1	
		Subtracting from 180° seen/implied, 75°	1, 1	
	b)	isosceles	1	
		two angles are equal	2	o.e.
22	a)	4·5	1	
	b) i)	Drawing a 3×3 square	1	
	ii)	9, 16	1, 1	
	iii)	36	1	
	iv)	9	1	
23	a)	cube	1	
	b) i)	12	1	
	ii)	8	1	
	c)	Finding the area of 1 square, multiplying by 6	1, 1	Accept any other valid method.
		294	1	
24	a)	Correctly drawn angle ($\pm$ 2°), correctly marked angle	1, 1	
	b)	3	1	
	c) i)	50	1	
	ii)	Subtracting from 360° seen/implied, 29	1, 1	
25	a)	05:09 written as the earliest time	1	
		8.10 a.m., 08:45, 5.24 p.m.	1	
	b) i)	Valid attempt to arrive at a solution, 11:12	1, 1	
	ii)	Valid attempt to arrive at a solution, 35	1, 1	
26	a)	Subtracting 246 from 1000 seen/implied, 754	1, 1	
	b) i)	25 ($\pm$ 5)	1	
	ii)	Attempt to divide answer in (a) by 29	2	
		26	1	c.a.o.
27	a)	Dividing 40 km by 5 litres (unitary method)	1	Accept any other valid method.
		Multiplying by 50 seen/implied, 400	1, 1	
	b)	Either finding the distance on 35 litres **or**		
		finding the number of litres required to cover 320 km	1	
		Valid explanation.	2	
28	a)	Valid attempt to arrive at a solution, $\bullet = 3$ $\Diamond = 9$	1, 1	Both correct
	b)	Valid attempt to arrive at a solution, $x = 9$ $y = 1$ $z = 0$	1, 1	All three correct
	c)	Valid attempt to arrive at a solution, $8·5 \times 9$	1, 1	All three digits correct

Legend to Marking Scheme: **c.a.o.**   correct answer only
                                                f.t.   follow through

o.e.	or equivalent
–1 e.e.o.o.	–1 for each error or omission

Other guidelines:

1. No mark in the marking scheme is sub-divisible.

2. Even if no working is shown, a correct answer scores full marks.

3. Incorrect answers – even though nearly correct – score no marks.

4. Incorrect working or statement following a correct answer is ignored.

5. An answer or working that is crossed out and not replaced is marked as if it was not crossed out. If the answer or working is **replaced** then the crossed out answer or working should **not** be considered in your marking.

6. If the answer is copied from the working area to the answer area incorrectly, then the marks are awarded fully.

7. Misread loses only the final accuracy mark but f.t. may be allowed on subsequent parts. The method marks may still be earned provided that the part question is not oversimplified.

Markers are reminded to jot down any remarks about the PAPER and the children's performance in particular questions. These remarks are to be included in the report each marker has to submit at the end of the marking exercise.
(A comments' sheet is supplied in order to help you compile this report.)