


**Junior Lyceum Entrance Examination into Form 1
November 2006
Mathematics Marking Scheme for Sample Paper**

IMPORTANT NOTE TO ALL MARKERS:

Question 1 is intended to test the children's ability to calculate mentally, accurately and efficiently, a skill that they are expected to acquire throughout the whole year. Children should be encouraged to carry out the calculations in question 1 mentally. However their thinking **may be supported BY JOTTINGS IN PART OR IN FULL**, if they feel the need. They should however realise that all the working eats away the time available to answer the remaining questions in the paper.

Any method to arrive at a solution gains full marks provided it is a valid one.

Question	Requirements	Mark	Additional Guidance
1	90	1	c.a.o.
2	584	1	c.a.o.
3	440	1	c.a.o.
4	398	1	c.a.o.
5	2900	1	c.a.o.
6	6.54	1	c.a.o.
7	335	1	c.a.o.
8	22	1	c.a.o.
9	c) pentagon	1	c.a.o.
10	b) 16000	1	c.a.o.
11 a)	Attempt to add and subtract, 66	1, 1	
b)	Any correct decimal fraction	1	
c)	5	1	
12 a)	0.57 written as smallest first	1	
	0.57, 0.75, 5.07, 5.7	1	
b)		1	
	21	1	
13 a)	180° seen or implied	1	
	148	1	
b)	Dividing by 2	1	
	74	1	
14 i)	Attempt to find the perimeter	1	
	78	1	
ii)	Attempt to find the area	1	
	144	1	

Question	Requirements	Mark	Additional Guidance
15 a) i)	12·8	1	
ii)	9·6	1	
b)	Valid attempt to find length of the bristles	1	
	32	1	
16 a)	1500	1	Accept any valid estimate
	1200	1	Accept any valid estimate
b)	Valid attempt to find the correct working	1	seen/implied
	Kay	1	
17 a)	Valid attempt to find height seen/implied	1	
	105	1	
b) i)	Jane	1	
ii)	2	1	
18	Selecting the multiples of 5	1	seen/implied
	Selecting the odd number	1	seen/implied
	Selecting all numbers greater than 10	1	seen/implied
	25	1	
19	Estimate seen/implied	1	
	Attempt to divide 600 by 27 seen/implied	1	
	Intermediate work	1	
	22	1	
20 a)	Correct plotting	1	Do not penalise if no line is drawn between the 16:00 and the 17:00 plottings.
b) i)	28	1	
ii)	26	1	
c)	13:00	1	
d) i)	It rises	1	o.e.
ii)	It remains the same	1	o.e.
21 a)	1/8	1	
b)	25	1	
c)	A	1	
d)	1/16	1	
e)	F or G	1	
f)	B or C	1	
22 a) i)	North East	1	o.e.
ii)	West, North	1, 1	o.e.
b)	Description giving correct distances and directions	3	-1 eoo (for SE distance is 14.1 km ± 0.3 km)
23 a) i)	Correct drawing of lines of symmetry	2	-1 eoo
ii)	Correct drawing of lines of symmetry	2	-1 eoo
b) i)	Correct drawing	1	c.a.o.
ii)	Correct drawing of line of symmetry	1	c.a.o.

Question	Requirements	Mark	Additional Guidance
24 a) b)	Addition seen/implied	1	
	Subtracting from 9.45 l (o.e.) seen/implied	1	
	2.82	1	
	Dividing 9.45 l (o.e.) by 5 seen/implied	1	
	Attempt to convert to litres seen/implied	1	
	1.89	1	
25 a) b)	Dividing by 3 seen/implied	1	o.e. method
	Multiplying by 2 seen/implied	1	
	40	1	
	Attempt to find number of girls seen/implied	1	o.e. method
	Subtracting answer from 40 seen/implied	1	
	16	1	
26 i) ii) iii)	Valid attempt to arrive at a solution, 25	1, 1	
	Valid attempt to arrive at a solution, 24	1, 1	
	Valid attempt to arrive at a solution, 6	1, 1	
27 a) b)	Adding 2:30 seen/implied	1	(Adding 35 min and 2:45 to 11:30)
	Adding 35 min seen/implied	1	
	11:20	1	
	Attempt to find time they are at the ferry	1	
	Valid attempt to find first possible trip	1	
	15:15	1	
28 a) b) c)	Valid attempt to arrive at a solution, 9	1, 1	
	Valid attempt to arrive at a solution, 12	1, 1	
	Valid attempt to arrive at a solution, 114	1, 1	

Legend:

c.a.o. correct answer only
eeoo each error or omission
f.t. follow through
o.e. or equivalent

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 child copies the answer from the working area to the answer area incorrectly, then award the marks without penalising.
7. Misread loses only the final accuracy mark but f.t. can be allowed on subsequent parts. The method marks can still be earned provided that the part question is not oversimplified.