Junior Lyceum Entrance Examination into Form I - 2008
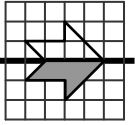## Mathematics Marking Scheme

No	Requirements	Mark	Additional Guidance
1	5640	1	c.a.o.
3	4.20	1	c.a.o.
5	11·4	1	c.a.o.
7	2500	1	c.a.o.
9	7·5 and 8·5 ✓	1	c.a.o.

No	Requirements	Mark	Additional Guidance
2	7×5 or 5×7 or 1×35 or 35×1	1	c.a.o.
4	**6** triangles shaded	1	c.a.o.
6	40	1	c.a.o.
8	4·7	1	Accept 4·70
10	585	1	c.a.o.

Question		Requirements	Mark	Additional Guidance
11	a)	Addition seen/implied	1	
		35·04	1	
	b)	Multiplying by 1000 seen/implied	1	
		35 040	1	f.t.
12		81	1	
		162	1	f.t.
		152	1	f.t.
		76	1	f.t.
13		Subtracting 13c from €3, €2.87	1, 1	
		Dividing answer by 7, 41 (**Do not accept €0.41**)	1, 1	f.t. for incorrect €2·87.
14	a) i)	$\frac{8}{9}$ ii) $\frac{5}{7}$	1, 1	
	b)	$3\frac{5}{8}$	1	
	c)	$\frac{9}{18}$ or any other correct answer	1	**Do not accept** $\frac{4.5}{9}$
15	a)	Valid attempt to find estimate seen/implied	1	Do not accept $21·8 \times 22$ if 479·6 is given as an estimate.
		Any reasonable answer between 400 and 484	1	
	b)	Multiplying 2·7 m by 5 seen/implied	1	
		13·5	1	
16		Dividing shape into rectangles	1	
		Valid attempt to find area of at least one rectangle	1	
		Subtracting to find length of at least one missing side	1	
		47	1	
17	a)	Church	1	
	b)	Multiplying each square by 5 m seen/implied	1	
		30 m south, 40 m west o.e.	1, 1	Order is important
18	a)	C	1	
	b)	A, D	1	Both correct
	c)	B	1	
	d)	D	1	
19		Attempt to divide	1	
		Valid intermediate work	2	Award marks depending on working shown
		16	1	Do not accept **16 rem 1**
Question		**Requirements**	**Mark**	**Additional Guidance**

Question		Requirements	Mark	Additional Guidance
20	a)	Valid attempt to find how much Brad **and** Cedric spend	1	
		Brad	1	
	b)	Adding seen/implied **OR** €15 + €6 + €9	1	**OR** €36 less each amount spent
		€36 × 3 = €108 seen/implied €30 ÷ 3	1	Adding amounts left
		(€108 − €30) ÷ 3 seen/implied €36 − €10	1	Dividing by 3
		26 26	1	26 o.e.
21	a) i)	30	1	
	ii)	48	1	
	b)	100 minutes seen/implied	1	
		Converting to 1 h 40 min seen/implied	1	f.t. for incorrect 100
		14:25 added to converted time	1	
		16:05 or 4.05 p.m.	1	f.t.
22	a) i)	D	1	
	ii)	B	1	
	b)		2	−1 e.e.o.o. Accept correct reflection not shaded
	c)	Valid attempt to arrive at a solution seen/implied, 6	1, 1	At least 2 diagonals seen
23	a)	50% seen first,	1	Accept equivalent
		0·45, $\frac{2}{5}$	1	percentages/fractions
	b) i)		1	
	ii)	6, 10	1	both correct
	iii)	22	1	
	iv)	20	1	
24	a)	125 ± 2°	1	
	b)	B, A, D, C	1	Accept angles instead of letters as long as marked on diagrams
	c) i)	an obtuse	1	
	ii)	Correct marking and positioning of the letter **R**	1	
	iii)	5·5 ± 2 mm	1	
	iv)	3	1	
25	a)	105, 500	1, 1	f.t. for incorrect 105
	b)	Dividing 150 by 20 seen/implied	1	
			1	
	c)	Monday	1	
	d)	$\frac{50}{500}$ (f.t. for incorrect 105 and/or 500)	1	o.e.
26		Subtracting 9 matchsticks, 63 seen	1, 1	For trial and improvement method award 4
		63 ÷ 7 seen/implied, 9 seen	1, 1	marks or less depending on working shown
		12 triangles, 9 squares	2	**Both correct**

27	a) i)	Subtracting from 180° seen/implied	1	Accept any other valid method
		77°, 77°	1, 1	
	ii)	The angles are **equal** (award mark even if angles are not 77° as long as they are **equal**)	1	o.e. Accept any true observation as long as **angles are equal**
	b)	Attempt to draw both diagonals	1	
		Dot at correct position	1	
28	a)	Valid attempt to arrive at a solution	1	
		120	1	
	b)	Valid attempt to arrive at a solution	1	
		Set 1: 3 + 4 + 8 or Set 2: 1 + 6 + 8	1	Each card can be used **only once**
		1 + 5 + 9 3 + 5 + 7	1	
		2 + 6 + 7 2 + 4 + 9	1	

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 the 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.