

Junior Lyceum Entrance Examination into Form I – Resit 2009
Mathematics Marking Scheme

| No | Requirements | Mark | Additional Guidance |
|----|--------------|------|---------------------|
| 1 | 139 | 1 | |
| 3 | 41 | 1 | |
| 5 | 30 | 1 | |
| 7 | larger | 1 | o.e. |
| 9 | 6 | 1 | |

| No | Requirements | Mark | Additional Guidance |
|----|--------------|------|---------------------|
| 2 | 597 | 1 | |
| 4 | 54 | 1 | |
| 6 | c.a.o. | 1 | |
| 8 | 285 | 1 | |
| 10 | c) 8/15 | 1 | |

| Question | Requirements | Mark | Additional Guidance | |
|----------|--------------|--|---------------------|--|
| 11 | a) i) | 10.5 (± 2 mm) | 1 | |
| | ii) | 12.3 (± 2 mm) | 1 | |
| | b) | Subtracting the first answer from the second | 1 | |
| | | 1.8 (± 4 mm) | 1 | f.t. |
| 12 | a) | c.a.o. | 2 | |
| | b) | c.a.o. | 1 | |
| | c) | Q, T (both correct) | 1 | -1 e.e.o.o. |
| 13 | | Multiplying by 7 (seen/implied) | 1 | |
| | | 1015 | 1 | |
| | | Dividing by 1000 (seen/implied) | 1 | |
| | | 1.015 | 1 | f.t. |
| 14 | a) | 128.3 | 1 | |
| | b) | 45.8 | 1 | |
| | c) | 9.5 | 1 | |
| | d) | 3370 | 1 | |
| 15 | | Addition (seen/implied) | 1 | |
| | | 112.5 | 1 | |
| | | Dividing by 5 (seen/implied) | 1 | |
| | | 22.5 | 1 | f.t. |
| 16 | a) | 8, 100 | 1, 1 | |
| | b) | 70 | 1 | |
| | c) | 8/10, 0.75, 70% | 1 | Accept converted fractions |
| 17 | | 8.5 km (seen/implied) | 1 | |
| | | Adding 17 to 8.5 (seen/implied) | 1 | |
| | | Subtracting answer from 40 (seen/implied) | 1 | |
| | | 14.5 | 1 | |
| 18 | | $494 \div 19$ (seen/implied) | 1 | |
| | | Valid intermediate work | 2 | Award marks depending on working shown |
| | | 26 | 1 | |
| 19 | | 25×3 (seen/implied) | 1 | |
| | | $75 + 7$ (seen/implied) | 1 | |
| | | $82 \div 2$ (seen/implied) | 1 | |
| | | 41 | 1 | f.t. for incorrect 75 |

| Question | Requirements | Mark | Additional Guidance |
|----------|---|----------------------------|---|
| 20 | a) 600 b) 3 c) 450, 300 d) 150 m west seen north directions totalling 450 m seen | 1 1 1, 1 1 1 | |
| 21 | a) i) 4 ii) 25 b) i) 16 ii) square c) i) correct drawing of pattern ii) 35 | 1 1 1 1 1 1 | Both correct |
| 22 | a) i) 31 + 31 + 28 ii) 90 b) Converting 115 min to 1 h 55 min Adding conversion to 10:25 a.m. 12:20 p.m. seen | 1 1 1 1 1 | Seen/implied f.t. (Accept equivalent method for whole solution) |
| 23 | a) i) Subtracting from 360° (seen/implied) 72° ii) acute b) i) $65^\circ \pm 2^\circ$ scalene no angle is equal to the other | 1 1 1 1 1 | f.t. from wrong addition of angles f.t. from answer for angle Y. o.e. |
| 24 | a) Each column correctly drawn b) Tuesday: 550 Total: 2500 c) Attempt to arrive at a solution 20 | 2 1 1 1 1 | -1 e.e.o.o. f.t. |
| 25 | a) 2500 b) i) Valid attempt to find 40% of 2500 <i>ml</i> (seen/implied) 1000 ii) 1500 seen/implied Valid attempt to find one tenth of result 150 | 1 1 1 1 1 | f.t. from incorrect answer in b(i) |
| 26 | a) i) F, H ii) E b) Dividing shape into 2 rectangles Area of small rectangle: 5 m^2 Area of large rectangle: 30 m^2 Total area: 35 | 1 1 1 1 1 | Both must be correct Accept any valid equivalent method |

| Question | Requirements | Mark | Additional Guidance |
|----------|--|----------------------|------------------------------|
| 27 | Value of $\oplus = 4$ Value of $\boxtimes = 9$ Value of $\otimes = 12$ $\oplus \otimes \boxtimes$ $\oplus \oplus \oplus$ $\otimes \otimes \boxtimes \rightarrow \underline{33}$ $\downarrow \quad \downarrow$ $\underline{20} \quad \underline{28}$ | 1 1 1 3 | -1 e.e.o.o. |
| 28 | At least 2 possibilities of length-width combinations seen All possibilities listed Working of perimeters according to each possibility. Length: 8, Width: 6 (or vice-versa) | 1 1 2 2 | Both numbers must be correct |

Legend to Marking Scheme:

- o.e.** or equivalent
- c.a.o.** correct answer only
- f.t.** follow through
- e.e.o.o.** 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.