

IMA1 Practice papers Set 2: Paper 1H (Regular) mark scheme – Version 1.0

| Question |     | Working                                                                   | Answer                | Mark | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|-----|---------------------------------------------------------------------------|-----------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.       |     | $(7 \times 2 + 2 \times 5) \times 200 =$<br>$4800$<br><br>$4800 \times 8$ | 38 400 g              | 5    | <p>M1 for <math>7 \times 2</math> or <math>2 \times 5</math> or <math>7 \times 7</math> or <math>5 \times 5</math> or <math>2 \times 2</math></p> <p>M1 for '<math>7 \times 2</math>' + '<math>2 \times 5</math>' (or equivalent) or '<math>7 \times 7</math>' = '<math>5 \times 5</math>'</p> <p>M1 (dep on first M) for '<math>24</math>' <math>\times</math> 200 or '<math>0.0024</math>' <math>\times</math> 2</p> <p>M1 for '<math>4800</math>' <math>\times</math> 8 or '<math>0.0048</math>' <math>\times</math> 8 000 000 or '<math>0.0048</math>' <math>\times</math> 8000</p> <p>A1 for 38 400g or 38.4kg</p> <p>(2C B3 for any answer including digits 384)</p> |
| 2.       | (a) |                                                                           | 13:30                 | M1   | $90 \div 1.5 (= 60)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|          |     |                                                                           |                       | M1   | $240 \div 60 (= 4 \text{ hours})$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|          |     |                                                                           |                       | A1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|          | (b) |                                                                           | Assumption and effect | C1   | <p>e.g. assumed constant speed – if not constant then could arrive earlier or later</p> <p>Assumed no stops – if stop then will arrive later</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

# Nov 2014 Maths 1h Mark Scheme

**K Payea**



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