**Essential Skills**

**Application of Number Level 1**

**The Farewell**

**Guidance notes for Application of Number Mark Scheme**

This mark scheme is provided as a guide for teachers/tutors and candidates to identify the requirements of the assessment. It shows the basis on which marks will be awarded by the Awarding Body.

* The mark scheme must be applied consistently across all papers
* Candidates must be credited with marks for what they have shown they can do rather than penalised for errors.
* Candidates may provide **other** **alternative** but acceptable methods for answering questions to those given in the mark scheme. This will be denoted as **oa**.
* Follow-through marks should be awarded where a subsequent correct process uses a previous incorrect answer.
* Transcription errors will not be penalised where the candidate clearly demonstrates a correct answer in working but incorrectly transcribes this to the answer line.

Acceptable follow through responses will identified with speech marks e.g. ‘0.34’

* Where units are not specified on the answer line, candidates should provide units for the answer. Normal conventions will be expected e.g. £3.5 should be given as £3.50 or 350p.

Total marks available: **45**

The Farewell

MARK SCHEME

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Available marks** | **Mark Allocation** | **Answers** |
| 1a | 1 | 1 for correct answer | £77 / 14 = £5.50 |
| 1b | 2 | 2  (or)  1 for correct dividing 54 by 3  1 for correct multiplying of their answer by 2  (or)  1 for correct multiplying by 2  1 for correct dividing of their answer by 3  (or)  1 for correct conversion of into decimal  1 for correct multiplying of their answer by 54 | 36  (or)  54÷3=18  18x2=36  (or)  2x54=108  108÷3=36  (or)  =0.  0.x54=36  (or)**oa** |
| 1c | 3 | 1 for correct scale  2 for all correct answers in the table | Each horizontal gridline = £5.00  ie £0.00, £5.00, £10.00, £15.00, £20.00, £25.00, £30.00  Mon - £25.00, Tue - £15.00, Wed - £5.00  Thu - £17.50, Fri - £20.00 |
| 1d | 2 | 2 for correct answer with working  (or)  1 for correctly adding their readings and £17.50.  1 for correctly dividing their answer by 5. | £16.50 with correct method.  (or)  25+15+5+17.50+20 = £82.50  82.5÷5 = £16.50 |
| 1e | 3 | 3  (or)  1 for correct addition of 2 hours  1 for correctly adding 45 minutes to their answer  1 for correct reason according to their answer  (or)  1 for correctly subtracting 45 minutes from 12.00  1 for correctly subtracting 2 hours from their answer  1 for correct reason according to their answer | ‘No’ with valid reason such as 15 minutes late  (or)  9.30 + 2 hours = 11.30  11.30 + 45 minutes = 12.15  No, she would be 15 minutes late.  (or)  12.00 – 45minutes = 11.15  11.15 – 2 hours = 9.15  No, she would need to leave 15 minutes earlier  (or) **oa** |
| 1f | 2 | 2 for correct answer  (or)  1 for correct substitution  1 for correct answer  (or)  1 for correct substitution  1 for correct answer | Ave S = 12mph  (or)  Ave S = 6÷0.5  Ave S = 12mph  (or)  Ave S = 6÷½  Ave S = 6x2  Ave S = 12mph |
| 1g | 1 | 1 for correct reverse calculation  (or)  **oa** | 12 x 0.5 = 6  (or)  12 x ½ = 6  (or)  If used 0.5 in first calculation, use ½ in second and vice versa |
| 1h | 1 | 1 for **one** valid reason | 30mph is the maximum speed   * traffic lights may have been at red so car had to stop – speed less than 30mph * lots of traffic so cars couldn’t go as fast as 30mph * bad bend in the road – cars couldn’t go as fast as 30mph safely * **oa** |
| 2a | 2 | 1 for correct conversion  1 for correct reason | 20% =  So 20% is less than ¼  (or)  ¼ = 25%  So ¼ is greater than 20%  (or)**oa** |
| 2b | 2 | 2 for correct answer  (or)  1 for setting up equation  1 for correct answer  (or)  1 for finding 1%  1 for correct answer  (or)  1 for setting up equation  1 for correct answer  (if candidate proceeds to subtract 5.99 from 29.95 give full marks for 5.99 and ignore subsequent step) | £5.99  (or)  x 29.95 = ?  = £5.99  (or)  1% = = 0.2995  0.2995 x 20 = £5.99  (or)  of 29.95 = 29.95 ÷ 5  = £5.99 |
| 2c | 2 | 2 for correct answer  (or)  1 for identifying **two** correct numbers  1 for correctly subtracting their numbers | £8.55  (or)  47.50 and 38.95  £8.55 |
| 2d | 3 | 3 for correct perfumes identified and reason  (or)  1 for correct sum of money  1 for **two** correct perfumes  1 for justification | Green Emerald **and** Baby Pink – all other perfumes cost more than 43.50  (or)  40+2+1.50=43.50  Green Emerald **and** Baby Pink **oa**  All perfumes correctly identified that are less than their sum of money (or) all perfumes correctly identified that cost more than their sum of money |
| 2e | 1 | 1 for correct answer | 29.7(cm) |
| 2f | 3 | 3 for correct answer  (or)  1 for correctly substituting into formula  1 for correctly multiplying their numbers  1 for correctly dividing their answer by 2  (or)  1 for correctly dividing **one** length by 2  1 for substituting their answer correctly into the equation  1 for correctly multiplying their numbers | 62370mm² (or) 623.7cm²  (or)  297 x 420 (or) 29.7 x 42  124740 (or) 1247.4  124740÷2=62370 (or) 1247.4÷2=623.7  (or)  148.5 (or) 210 (or) 14.85 (or) 21  148.5 x 420 (or) 297 x 210 (or) 14.85 x 42 (or) 29.7 x 21  62370mm² (or) 623.7cm²  (or)**oa** |
| 2g | 2 | N.B. the card may have been folded to produce a greeting card 148.5mm wide or 210mm wide.  2 for correct letter (or measurement of photo) and correct justification  (or)  1 for A or D  (or)  1 for incorrect photograph but correct reason | **A** because card is 148.5mm wide and photograph B is 152mm wide so it is too wide  (or)  **D** because card is 210mm wide and photograph E is 254mm wide so it is too wide  (or)  A or D  (or)  Using incorrect dimension of photograph such as E because 203mm is less than 210mm |
| 3a | 3 | 3 for correct answer  (or)  1 for identifying process of division of 60 by 10  1 for correct answer  1 for correctly multiplying their answer by 2  (or)  1 for correctly multiplying 60 by 2  1 for identifying process of division of their answer by 10  1 for correctly dividing their answer by 10 | 12  (or)  60 ÷ 10  60 ÷ 10 = 6  6 x 2 = 12  (or)  60 x 2 = 120  120 ÷ 10  12  (or) **oa** |
| 3b | 3 | 3 for accurately drawing lines on graph **and** reading off correctly **and** correct justification  (or)  1 for one accurately drawn line at correct temperature  1 for accurately drawn line from their first line and reading their 2nd line accurately ±2°  1 for justification relating to their lines | Lines drawn at 50°C and reading off 120-125°F therefore coffee too hot to use these plastic cups  (or)  Lines drawn at 145°F and reading off 60-65°C therefore coffee too hot to use these plastic cups  (or)  Line drawn at 50°C or 145°F to meet graph line |
| 3c | 2 | 2 for correct answer  (or)  1 for chocolate being ½ of total  1 for correct position of arrow | Arrow drawn at ‘Even Chance’  40 / 80 = ½ or 50%  Arrow drawn at ‘Even Chance’ |
| 3d (i)  3d (ii) | 3  1 | 3 for correct answer  (or)  1 for correct number of pizzas from tally chart  1 for correct total  1 for subtraction  1 for correct calculation check (oa) | £10.25  9 + 8 = 17  17 \* £6.75 = £114.75  £125 - £114.75 = £10.25  £114.75 / 6.75 = 17 (oa) |
| 3e | 3 | 3 for correct length and breadth  1 for dividing rectangle into 8 equal shapes  1 for correct length  1 for correct breadth  (oa) | 8 equal rectangles – 8cm length and 10cm breadth  8 equal rectangles  32 cm / 4 = 8 cm  20 cm / 2 = 10 cm  (oa) |