**NCFE Level 1 Functional Skills Qualification in Mathematics (603/5055/6)**

Mark scheme: Practice P001267

v1.1

**Examiner Mark Scheme Guidance**

**Information**

This guidance is intended to support NCFE examiners in the valid, reliable and consistent application   
of the relevant mark scheme version, against learner evidence generated during their external   
assessment.

This mark scheme provides:

* the total marks available for each question
* the subject content reference for each mark
* example process/methods and evidence of the types of responses expected for each mark
* (once confirmed) the pass mark for the relevant assessment version.

This mark scheme **must** be used for paper-based and online marking of the assessment version indicated**.**

**Instructions and guidance on application**

* All learners must receive the same treatment and should be marked fairly. Examiners must   
  mark the first learner in exactly the same way as they mark the last.
* Mark schemes should be applied positively. Learners must be rewarded for what they have   
  shown they can do rather than penalised for things they have not done.
* Examiners should always award full marks if deserved, i.e. if the answer matches the mark   
  scheme. Half marks must not be awarded.
* Examiners should be prepared to award zero marks if the learner’s response is not worthy   
  of credit according to the mark scheme.
* The mark scheme is a working document and may be added to at the standardisation to reflect   
  valid alternative answers given by a learner.
* When in doubt regarding the application of the mark scheme to a learner’s response, the Chief Examiner must be consulted.

This mark scheme provides the following information:

* section and activity information
* question number
* total marks available per question (top row, shaded) followed by
* attribution of individual marks per question
* problem solving (PS) and underpinning skill (UPS) attribution
* process/method or answers, as well as additional or alternative evidence; indicative of the

subject content (SC) attribution

* any additional guidance, as required.

To support the valid, reliable and consistent marking of learner evidence, the following abbreviations   
are applied throughout the mark scheme:

|  |  |
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| **Annotation** | **Explanation and use** |
| **FT** | Follow through marks are applied when there are earlier mistakes in the method. |
| **OE** | Or equivalent marks are available for the justification of the answer being presented in a different form to the mark scheme i.e. 0.5 or ½. |
| **CAO** | Correct answer only. |
| **Their** | ‘Their’ refers to the learner’s own values. |
| **Seen** | Seen refers to the requirement to see the stated value in the learner’s response or working out. |
| **Imp** | Implied refers to the learner’s response implying correct working out used but not seen. |
| **Brackets** | Indicates units are not required on final answers or for answers seen within working. |
| **BOD** | Benefit of doubt where learner handwriting may be difficult to interpret but previous working may indicate correct final answer. |
| **Shaded** | Indicates requirements for full marks to be awarded. |

**Version Control**

Mark schemes are subject to version control. Examiners **must** ensure they have access to the latest version following each standardisation event.

Over time mark schemes will incorporate additional evidence captured and confirmed during standardisation events. Any additional evidence criteria will be captured in colour-coded text applicable  
to the dated standardisation event.

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| **Paper number: P001267** | | | | **Version: 1.1** | | |
| **(Section A) Activity 1: Mugs of tea (Non-calculator Test)** | | | | | | |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | | **Additional or Alternative Evidence (with guidance)** | **SC** |
| **1 (a)** | **1** | **UPS** | (£)12 | | CAO | N9 |
| **1 (b)** | **1** | **UPS** | (£)correct answer to their 12 + 24 | |  | N2 |
| **1 (c)** | **3** | **PS** | 1.5(p) | | Award 3 marks if correct answer given |  |
| 1 |  |  | |  | N17 |
| 1 |  | × 100 | |  | N3a |
| 1 |  | 1.5(p) | | CAO | N17 |
| **1 (d)** | **3** | **PS** | 50 (servings) | | Award 3 marks if correct answer given |  |
| 1 |  | Uses conversion 1 litre = 1000 ml | | e.g. 20 ÷ 1000 or 0.02 or 1000 (ml) seen | M20c |
| 1 |  | 1000 ÷ 20 or 1 ÷ 0.02 | | OE | N17 |
| 1 |  | 50 (servings) | | CAO | N17 |
| **1 (e)** | **2** | **PS** | 0.32(p) | | Award 2 marks if correct answer given |  |
| 1 |  | or 0.32 or  or 0.0032 | |  | N3b |
| 1 |  | 0.32(p) | | CAO | N3b |
| **1 (f)** | **2** | **PS** | 2.82 or 2.8 or 3(p) | | Award 2 marks if correct answer given |  |
| 1 |  | Their (1 + 0.32 + 1.5) | |  | N11 |
| 1 |  | Their correct total | | Accept rounding to nearest penny if from correct working | N11 |
| **1 (g)** | **3** | **PS** | (£)1.24 | | Award 3 marks if correct answer given |  |
| 1 |  | or  or | | OE may be implied by 40 and 4 seen | N14 |
| 1 |  | Their 44 + 80 or their 0.44 + 0.8  or 1.55 × 0.8 or 1.55 × 80 seen | | Implies 1st mark | N14 |
| 1 |  | (£)1.24 | | CAO | M20d |

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| **(Section B) Activity 2: Caring for reptiles (Calculator Test)** | | | | | | | |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence (with guidance)** | | | **SC** |
| **2 (a)** | **1** | **UPS** | 150 (mm) | CAO | | | M20a |
| **2 (b)** | **3** | **PS** | 4 (years) | Award 3 marks if correct answer given | | |  |
| 1 |  | 72 – 12 or 60 |  | | | N5 |
| 1 |  | Their 60 ÷ 15 |  | | | N5 |
| 1 |  | 4 (years) | CAO | | | N5 |
| **2 (c)** | **2** | **PS** | See below |  | | |  |
| 1 |  | 4 : 1 and 2 : 1 seen |  | | | N17 |
| 1 |  | Cauliflower with 4 : 1 and 2 : 1 seen |  | | | N17 |
| **2 (d)** | **3** | **PS** | See below |  | | |  |
| 1 |  | Calculates any area correctly | |  |  | | --- | --- | |  | Areas | | Mini | 198 | | Small | 356.5 | | Medium | 604.5 | | Large | 814 | | X large | 1350 | | | | M22a |
| 1 |  | 23 × 15.5 or 356.5  **and** 31 × 19.5 or 604.5 |  | | Accept use of 70 cm (max size) i.e.  31 × 19.5 or 356.5  **and** 45× 30 or 1350then FT to Extra-large or 45 × 30 or £18.99 | M22a |
| 1 |  | Medium or 31 × 19.5 or £9.95 stated | FT their 23 × 15.5 and 31 × 19.5 | | N10 |
| **2 (e)** | **3** | **PS** | 15 (terrapins) | Award 3 marks if correct answer given | | |  |
| **Alternative method 1** | | | | | | |
| 1 |  | 6000 – 1900 or 4100 | |  | | N7 |
| 1 |  | or 13.66… or 13 + 2 | |  | | N7 |
| 1 |  | 15 (terrapins) | |  | | N12 |
| **Alternative method 2** | | | | | | |
| 1 |  | 1900 + 300 | Start of a repeated addition process | | | N7 |
| 1 |  | 1900 + (13 × 300) | OE | | | N7 |
| 1 |  | 15 (terrapins) |  | | | N12 |
| **2 (f)** | **2** | **UPS** | See below |  | | |  |
| 1 |  | 30-34 correctly labelled |  | | | H28a |
| 1 |  | Bar drawn to 13 | Allow any width of bar except a single line. Top of bar must be on 13 line, not above or below. If not ruled, line must be straight and accurate. | | | H28a |
| **2 (g)** | **1** | **UPS** | accept 0.44 or 44% | OE  If 44 then must have % | | | H31 |

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| **Activity 3: Cycling trip (Calculator Test)** | | | | | |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence  (with guidance)** | **SC** |
| **3 (a)** | **2** | **UPS** | (hours) | Award 2 marks if correct answer given |  |
| 1 |  | 3 (hours) 30 (mins) or 210 (mins) or 3.5 | OE | M20e |
| 1 |  | (hours) | Accept  OE | N8a |
| **3 (b)** | **2** | **PS** | (£)111.16 | Award 2 marks if correct answer given |  |
| 1 |  | 158.8(0) × 0.7 or 158.8(0) × 0.3 | OE | M19 |
| 1 |  | (£)111.16 | CAO | M19 |
| **3 (c)** | **2** | **UPS** | 87.5 (mm) OE | Award 2 marks if correct answer given |  |
| 1 |  | 70 ÷ 8 |  | M21 |
| 1 |  | 8.75 × 10 |  | M20a |
| **3 (d)** | **3** | **PS** | 196 (km) | Award 3 marks if correct answer given |  |
| **Alternative method 1** | | | | |
| 1 |  | 70 × 2 or 140 |  | N2 |
| 1 |  | or 28  or or 56 |  | N14 |
| 1 |  | 196 (km) |  | N14 |
| **Alternative method 2** | | | | |
| 1 |  | Distance × 2 |  | N2 |
| 1 |  | 1.4 × 70 or 98  or 1.4 × 140 or 196 |  | N14 |
| 1 |  | 196 (km) |  | N14 |
| **3 (e)** | **3** | **PS** | Yes **and** 22.8(48…) or 23 or Yes **and** 20000 **and** 22848 | Award 3 marks if correct answer given |  |
| 1 |  | 42 × 32 × 17 or 22848 |  | M23 |
| 1 |  | Their 22848 ÷ 1000 or 20 × 1000 or 20000 seen |  | M20c |
| 1 |  | Yes **and** 22.8(48…) or 23  or Yes **and** 20000 **and** 22848 |  | M23 |
| **3 (f)** | **1** | **PS** | Yes, **and** 1.52 or 0.8 seen | CAO | N10 |
| **3 (g)** | **1** | **PS** | 1.323 kg or 1323 g | Units must be included | M20b |
| **3 (h)** | **1** | **UPS** | 90 (degrees) |  | M26a |

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| **Activity 4: Rough Sleeping (Calculator)** | | | | | |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence  (with guidance)** | **SC** |
| **4 (a)** | **3** | **PS** | See below |  |  |
| 1 |  | Vertical scale correctly completed  0, 1000, 2000, 3000, 4000, 5000 |  | H27d |
| 1 |  | Horizontal scale correctly completed  2011, 2012, 2013, 2014, 2015, 2016 |  | H27d |
| 1 |  | Both axes correctly labelled | Horizontal axis year.  Vertical axis frequency or number (of people) | H27d |
| **4 (b)** | **1** | **UPS** |  | CAO | N16 |
| **4 (c)** | **2** | **UPS** | 2100 (people) | Award 2 marks if correct answer given |  |
| 1 |  | or or 2058 | OE | N9 |
| 1 |  | 2100 (people) | CAO | N15 |
| **4 (d)** | **3** | **PS** | 6850 (people) | Award 3 marks if correct answer given |  |
| **Alternative method 1** | | | | |
| 1 |  | or 146 | OE | M20d |
| 1 |  | 1000000 ÷ their 146 | OE | N1a |
| 1 |  | 6850 (people) | CAO | N12 |
| **Alternative method 2** | | | | |
| 1 |  | Their value £ ÷ 0.4 or their value p ÷ 40 | Must work with consistent units | M20d |
| 1 |  | 1000000 ÷ 365 |  | N1a |
| 1 |  | 6850 (people) | CAO | N12 |
| **4 (e)** | **2** | **UPS** | 6, 5, 8 correctly placed |  |  |
| 1 |  | 2 or 3 correct frequencies |  | H27a |
| 1 | UPS | 3 correct frequencies | H27a |
| **4 (f)** | **2** | **PS** | (£)194.50 | Award 2 marks if correct answer given |  |
| 1 |  | or 194.5 seen | Award for ÷ 32 (allow for misread of 6224 if clear) | H29a |
| 1 |  | (£)194.50 | Must have 2dp | H29a |
| **4 (g)** | **1** | PS | (£)167 | CAO | H29b |
| **4 (h)** | **1** | PS | Football because it or 0.50 is the biggest (probability) | Accept highest, biggest, largest (not most likely)  Do not accept football and 0.5 seen without comment on bigger/higher/most  (or 0.5 is most likely) | H30b |