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

Mark scheme: Practice P001268

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: P001268** | **Version: 1.1** |
| **(Section A) Activity 1: Wildflowers (Non-calculator Test)** |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence (with guidance)** | **SC** |
| **1 (a)** | **2** | **UPS** | 1600 | Award 2 marks if correct answer given |  |
| 1 |  | 40 × 40 |  | N6 |
| 1 |  | 1600  | CAO | N6 |
| **1 (b)** | **2** | **UPS** | 0.49 (m2) | Award 2 marks if correct answer given |  |
| 1 |  | 0.7 × 0.7  |  | M22a |
| 1 |  | 0.49 (m2) | CAO | N11b |
| **1 (c)** | **3** | **PS** | See below |  |  |
| 1 |  | 0.5 | FT their 0.49 rounded to one sig fig. | N12 |
| 1 |  | **their** 1600 ÷ their 0.5 | FT their 1a & b | N15 |
| 1 |  | 3200 | FT their correct answer if using values from 1a & b | N11b |
| **1 (d)** | **5** | **PS** | 8000 | Award 5 marks if correct answer given  |  |
| 1 |  | 4 + 1 + 3 + 2 + 4 (+ 0) + 4 (+ 0) + 10 (+ 0 + 0) + 2 or 30 | May be implied if 2.5 seen | H29a |
| 1 |  | **their** 30 ÷ 12 | May be implied if 2.5 seen | H29a |
| 1 |  | 2.5 | CAO | H29a |
| 1 |  | **their** 3200 × their 2.5 | FT on **their** 1c | N5 |
| 1 |  | 8000 | CAO | N5 |
| **1 (e)** | **1** | **UPS** | 0.05 | CAO | N16 |
| **1 (f)** | **2** | **PS** | 625 (miles2) | Award 2 marks if correct answer given |  |
| 1 |  |  or 625 | OE | N14 |
| 1 |  |  625 (miles2)  | CAO | N14 |

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| **(Section B) Activity 2: Dinosaur cake (Calculator Test)** |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence (with guidance)** | **SC** |
| **2 (a)** | **2** | **UPS** | 3200 (cm3) | Award 2 marks if correct answer given |  |
|  | 1 |  | 20 × 20 × 8 or 3200 |  | M23 |
|  | 1 |  | 3200 (cm3) | CAO | M23 |
| **2 (b)** | **4** | **PS** | 165 (g) | Award 4 marks if correct answer given  |  |
|  | 1 |  | 2.4 × 1000 or 3200 ÷ 1000 |  | M20c |
|  | 1 |  | their (2400) ÷ 3200 or 0.75 | OE  | N17 |
|  | 1 |  | their 0.75 × 220 or (3 × 220) ÷ 4 | OE Award 2 middle marks if 220 / 3200 × 2400 = (165) or 220 / 4 × 3 = (165) seen  | N17 |
|  | 1 |  | 165 (g) | CAO | N17 |
| **2 (c)** | **2** | **PS** | See below |  |  |
|  | 1 |  | 0.6 and 0.66… seenor  seenor 60% and 66-67% |  | N8b |
|  | 1 |  | Tin A with valid comparable working seen  | dependent on 1st mark being awarded | N8b |
| **2 (d)** | **2** | **PS** | See below |  |  |
|  | 1 |  |  or 1.25 | OE Accept 125% | N8b |
|  | 1 |  | Yes and  or 0.25 = 25% | Or implied from correct statement,ie  = 1.25  | N16 |
| **2 (e)** | **3** | **PS** | See below |  |  |
|  | 1 |  | 6 × 90 or 6 × 0.9 or 540 or 5.4 or £5.40 |  | N17 |
|  | 1 |  | 4 × 120 or 4 × 1.2 or 480 or 4.8 or £4.80 |  | N17 |
|  | 1 |  | Toppers supported by working | Comparison must between two values in the same units, from price × packs | N17 |
| **2 (f)** | **2** | **PS** | See below |  |  |
|  | 1 |  |  | OE | H31 |
|  | 1 |  | 0.25 | FT their  | N16 |

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| **Activity 3: Student finance (Calculator)** |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence (with guidance)** | **SC** |
| **3 (a)** | **4** | **PS** | See below |  |  |
| **Alternative method 1** |
| 1 |  | 27120 – 25000 or 2120 |  | N1b |
| 1 |  | their 2120 × 15 ÷ 100 or 212 + 106or 0.15 × 2120or 318 | OE method for finding 15% | N14 |
| 1 |  | 318 ÷ 12 |  | N17 |
| 1 |  | (£)26.50 | CAO to 2 dp | N17 |
| **Alternative method 2** |
| 1 |  | 27120 ÷ 12 and 25000 ÷ 12 or 2260 and 2083.3… |  | N17 |
| 1 |  | their 2260 – their 2083.3… or 176.6….. |  | N1b |
| 1 |  | their 176.6… × 0.15 | OE method for finding 15% | N14 |
| 1 |  | (£)26.50 | Allow (£)26.49 to 2dp Allow 2650p or 2649p  | N17 |
| **3 (b)** | **3** | **UPS** | (£)1237.50 | Award 3 marks if correct answer given  |  |
| **Alternative method 1** |
| 1 |  |  or 56.25 | OE May be implied if 112.5 seen | M18 |
| 1 |  | their 56.25 × 2 or 112.5 |  | M18 |
| 1 |  | (£)1237.50 | CAO to 2dp | M18 |
| **Alternative method 2** |
| 1 |  |  or 56.25 | OE | M18 |
| 1 |  | their 56.25 × 2 or 112.5 |  | M18 |
| 1 |  | (£)1237.50 | CAO to 2 dp | M18 |
| **3 (c)** | **3** | **PS** | See below |  |  |
| 1 |  | Correct frequencies 5, 3 and 1 |  | H28a |
| 1 |  | At least 2 bars correct for their freqs | H28b |
| 1 |  | All bars correct heights for their freqs | H28b |
| **3 (d)** | **2** | **UPS** | See below |  |  |
| 1 |  | 1 for both horizontal and vertical line correct Do not award if additional lines are drawn ie maximum of 2 lines  | G:\External Quality Assurance\Assessment Design\20. FS Reform\2. Production\2. Maths\Level 1\1. Onscreen\Paper 2\4- Temp&Review\Artwork\L1_Paper_2_A1_q3d.png | M24b |
| 1 |  | 1 for both diagonals lines correctDo not award if additional lines drawn  | M24b |
| **3 (e)** | **1** | **PS** | Open line because (0.4) is biggest number/probability |  | H30b |
| **3 (f)** | **2** | **PS** | See below |  |  |
| 1 |  | Open Line (£)6.91 | CAO | H29b |
| 1 |  | The Abbey Trust (£)9.23 | FT 35.56 – their  | H27a |

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| **Activity 4: Student services (Calculator)** |
| **Q** | **Marks** | **UPS / PS** | **Process and Answer** | **Additional or Alternative Evidence (with guidance)** | **SC** |
| **4 (a)** | **2** | **PS** | 21(.0) and 9.9  | Award 2 marks if correct answer given |  |
| 1 |  | 21(.0) |  | M25b |
| 1 |  | 9.9 |  | N9 |
| **4 (b)** | **3** | **PS** | 1247.4 (cm2) | Award 3 marks if correct answer given  |  |
| **Alternative method 1** |
| 1 |  | 29.7 × 21.0 or 623.7 |  | M22a |
| 1 |  | their 632.7 × 2 |  | M25b |
| 1 |  | 1247.4 (cm2) | allow 1247 but not 1248 | M22a |
| **Alternative method 2** |
| 1 |  | their 21.0 × their 9.9 or 207.9 |  | M22a |
| 1 |  | their 207.9 × 6 |  | M25b |
| 1 |  | 1247.4 (cm2) | allow 1247 but not 1248 | M22a |
| **4 (c)** | **1** | **PS** | No and dimensions should be 40 and 50 or 90 should not be on plan |  | M25a |
| **4 (d)** | **1** | **UPS** | Any hexagon drawn |  | M24a |
| **4 (e)** | **1** | **UPS** | 120° (2 degrees) |  | M26b |
| **4 (f)** | **1** | **UPS** | Obtuse | CAO | M24c |
| **4 (g)** | **3** | **PS** | See below |  |  |
| 1 |  |  or 12500 | OE correct method | N14 |
| 1 |  |  or 12800 | OE correct method | N14 |
| 1 |  | This year | Must be both correct to award all 3 marks  | N13 |
| **4 (h)** | **2** | **PS** | See below  |  |  |
| 1 |  | Scale should go up in 10s | Any comment that relates to scale not being consistent. Do not allow ‘scale is wrong’ | H27c |
| 1 |  | Well-being bar the wrong height |  | H27c |
| **4 (i)** | **1** | **UPS** |  | Accept point in middle; mark intention | H30a |