# 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:

| 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 <br> in a different form to the mark scheme i.e. 0.5 or $1 / 2$. |


| 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 <br> working out. |
| Imp | Implied refers to the learner's response implying correct working out used but not <br> 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 <br> 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.

Note: Pass marks for Functional Skills external assessments are set in an awarding meeting, in which a combination of statistical analysis and professional judgement is used to determine the minimum required standard to achieve a pass in the assessment.

While different versions of the same assessment are designed to be of the same level of difficulty, variations in content can lead to the minimum required standard being represented by different marks across versions.

| Paper number: |  |  | P001267 | Version: | Pass mark: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Section A) Activity 1: |  |  | Mugs of tea (Non-calculator Test) |  |  |  |
| Q | Marks | $\begin{aligned} & \text { UPS } \\ & \text { / PS } \end{aligned}$ | 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 |  | $\frac{\text { their } 36}{2400}$ |  |  | N17 |
|  | 1 |  | $\times 100$ |  |  | 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 $=1000 \mathrm{ml}$ | e.g. $20 \div 1000$ or 0.02 or 1000 (ml) seen |  | M20c |
|  | 1 |  | $1000 \div 20$ or $1 \div 0.02$ | OE |  | N17 |
|  | 1 |  | 50 (servings) | CAO |  | N17 |
| 1 (e) | 2 | PS | 0.32(p) | Award 2 marks if correct answer given |  |  |
|  | 1 |  | $\frac{320}{1000}$ or 0.32 or $\frac{3.2}{1000}$ 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 |  | $\frac{55}{100} \times 80$ or $\frac{55}{100} \times 0.8$ or $\frac{80}{2}+\frac{80}{2 \times 10}$ | OE may be implied by 40 and 4 seen |  | N14 |
|  | 1 |  | Their $44+80$ or their $0.44+0.8$ or $1.55 \times 0.8$ or $1.55 \times 80$ seen | Implies $1^{\text {st }}$ mark |  | N14 |
|  | 1 |  | (£) 1.24 | CAO |  | M20d |

(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 $60 \div 15$ |  |  | 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 <br> Mini 198 <br> Small 356.5 <br> Medium 604.5 <br> Large 814 <br> X large 1350 |  | M22a |
|  | 1 |  | $\begin{aligned} & 23 \times 15.5 \text { or } 356.5 \\ & \text { and } 31 \times 19.5 \text { or } 604.5 \end{aligned}$ | FT their $23 \times 15.5$ and $31 \times 19.5$ | Accept use of 70 cm (max size) i.e. $31 \times 19.5$ or 356.5 and $45 \times 30$ or 1350then FT to Extra-large or $45 \times$ 30 or $£ 18.99$ | M22a |
|  | 1 |  | Medium or $31 \times 19.5$ or $£ 9.95$ stated |  |  | N10 |
| 2 (e) | 3 | PS | 15 (terrapins) | Award 3 marks if correct answer given |  |  |
|  | Alternative method 1 |  |  |  |  |  |
|  | 1 |  | 6000-1900 or 4100 |  |  | N7 |
|  | 1 |  | $\frac{\text { their } 4100}{300} \text { or } 13.66 \ldots \text { or } 13+2$ |  |  | N7 |
|  | 1 |  | 15 (terrapins) |  |  | N12 |
|  | Alternative method 2 |  |  |  |  |  |
|  | 1 |  | $1900+300$ | Start of a repeated addition process |  | N7 |


|  | 1 |  | $1900+(13 \times 300)$ | 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 | $\frac{4}{9} \text { accept } 0.44 \text { or } 44 \%$ | OE <br> If 44 then must have \% | H31 |

Activity 3: Cycling trip (Calculator Test)

| Q | Marks | UPS / PS | Process and Answer | Additional or Alternative Evidence (with guidance) | SC |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 (a) | 2 | UPS | $3 \frac{1}{2} \text { (hours) }$ | Award 2 marks if correct answer given |  |
|  | 1 |  | 3 (hours) 30 (mins) or 210 (mins) or 3.5 | OE | M20e |
|  | 1 |  | $3 \frac{1}{2} \text { (hours) }$ | Accept $3 \frac{30}{60}$ OE | N8a |
| 3 (b) | 2 | PS | (£)111.16 | Award 2 marks if correct answer given |  |
|  | 1 |  | $158.8(0) \times 0.7$ or $158.8(0) \times 0.3$ | OE | M19 |
|  | 1 |  | (£)111.16 | CAO | M19 |
| 3 (c) | 2 | UPS | 87.5 (mm) OE | Award 2 marks if correct answer given |  |
|  | 1 |  | $70 \div 8$ |  | M21 |
|  | 1 |  | $8.75 \times 10$ |  | M20a |
| 3 (d) | 3 | PS | 196 (km) | Award 3 marks if correct answer given |  |

## Alternative method 1

| 1 | $70 \times 2$ or 140 |  | N2 |
| :---: | :--- | :--- | :--- |
| 1 | $\frac{40}{100} \times 70$ or 28 <br> or $\frac{40}{100} \times 140$ or 56 |  | N14 |
| 1 | $196(\mathrm{~km})$ |  | N 14 |



Activity 4: Rough Sleeping (Calculator)

| Q | Marks | $\begin{aligned} & \text { UPS } \\ & \text { /PS } \end{aligned}$ | 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. <br> Vertical axis frequency or number (of people) | H27d |
| 4 (b) | 1 | UPS | $\frac{3}{4}$ | CAO | N16 |
| 4 (c) | 2 | UPS | 2100 (people) | Award 2 marks if correct answer given |  |
|  | 1 |  | $\frac{3}{4} \times 2744 \text { or } \frac{75}{100} \times 2744 \text { or } 2058$ | OE | N9 |
|  | 1 |  | 2100 (people) | CAO | N15 |
| 4 (d) | 3 | PS | 6850 (people) | Award 3 marks if correct answer given |  |

## Alternative method 1



