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

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| Paper number: P001253  Section A: Non-calculator Test |

**Assessment window:** Monday 14 October 2019 – Friday 18 October 2019

**Time allowed:** 30 minutes

**Learner instructions**

* Answer **all** questions.
* Read each question carefully.
* Write your answers in the spaces provided.
* Show your working, as marks may be awarded for working.
* State units in your answers, where appropriate.
* Check your work.

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| To be completed by the examiner | | Mark |
| A | Activity 1 | / 15 |
| B | Activity 2 | / 15 |
| Activity 3 | / 15 |
| Activity 4 | / 15 |
| TOTAL MARK | | / 60 |

**Learner information**

* Section A contains **Activity 1** only.
* The maximum mark for this section is **15**.
* The marks available for **each** question are shown in brackets.

**Resources**

You will need a:

* pen, with black or blue ink
* pencil and eraser
* 30 cm ruler
* protractor.

If extra pages are used, please make sure your name and centre name are on them   
and they are securely fastened to this booklet.

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| **Please complete the details below clearly and in BLOCK CAPITALS.** | | | |
| Learner name |  | | |
| Centre name |  | | |
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| Learner number |  | Centre number |  |

**Do not turn over until the invigilator tells you to do so.**

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**Activity 1: Climbing mountains**

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| **1 (a)** | |  | G:\External Quality Assurance\Assessment Design\20. FS Reform\2. Production\2. Maths\Level 1\2. Paper-based\Paper 1\4- Temp&Review\Artwork\Act1.Q1a.jpgDon spends his holidays climbing mountains.  The twenty highest mountains in the UK are  all in Scotland.  Don began climbing these mountains in 2011.  He climbed 4 of these mountains each year.  In which year did he finish climbing the twenty highest mountains?  **[2 marks]** | |
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|  |  |  | Your answer: |  |

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| **1 (b)** | |  | Don lives in London.  He wants to travel to Fort William in Scotland.  Don finds this information about travel times.  **G:\External Quality Assurance\Assessment Design\20. FS Reform\2. Production\2. Maths\Level 1\2. Paper-based\Paper 1\4- Temp&Review\Artwork\A-1b.png**  How much longer does it take to travel by the night bus than to fly?  **[1 mark]** | |
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| **1 (c)** | |  | The cost of a return train ticket from London to Fort William is £176  Don sees an offer which gives him a 15% discount.  How much money will Don save if he has the discount?  **[2 marks]** | |
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|  |  |  | Your answer: | **£** |

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| **1 (d)** | |  | Don is going to climb a mountain called Ben Nevis.  To estimate how long this will take he uses this rule:   * 12 minutes for every 1 kilometre (km) of distance forward   plus   * 10 minutes for every 100 metres (m) of height gained.   G:\External Quality Assurance\Assessment Design\20. FS Reform\2. Production\2. Maths\Level 1\2. Paper-based\Paper 1\4- Temp&Review\Artwork\Q-1d.png  The height of Ben Nevis is 1345 m  The distance forward is 17 km  Estimate how long it will take Don to climb Ben Nevis.  Give your answer to the nearest hour.  **[5 marks]** | |
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|  |  |  | Your answer: | **hours** |

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| **1 (e)** |  | The time taken to come down a mountain depends on the angle of the slope.  Estimate the angle of this slope and tick the correct statement.  G:\External Quality Assurance\Assessment Design\20. FS Reform\2. Production\2. Maths\Level 1\2. Paper-based\Paper 1\4- Temp&Review\Artwork\Q-1e.png   |  |  | | --- | --- | |  | The angle is less than 5º | |  |  | |  | The angle is between 5º and 12º | |  |  | |  | The angle is more than 12º but less than 90º | |  |  | |  | The angle is more than 90º |   **[1 mark]** |

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| **1 (f)** | |  | When Don arrives in Fort William   * the temperature at the bottom of Ben Nevis is 3 ºC * the temperature at the top of Ben Nevis is –6 ºC   Calculatethe difference in temperature between the top and bottom  of Ben Nevis.  **[2 marks]** | |
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|  |  |  | Your answer: | **degrees** |

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| **1 (g)** | |  | The weather forecast says that, at the top of Ben Nevis at 2pm there is   * a 20% chance of snow * a  chance of rain.   Is it more likely to snow or rain?  Show your working.  **[2 marks]** | |
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|  |  |  | Your answer: |  |

**[Total marks: 15]**

**This is the end of Section A.**