

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

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.

### 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.

**Please complete the details below clearly and in BLOCK CAPITALS.**

Learner name \_\_\_\_\_

Centre name \_\_\_\_\_

Learner number

Centre number

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

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

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past paper

### Activity 1: Climbing mountains

1 (a) Don 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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**Please turn over**

- 1 (b)** Don lives in London.  
He wants to travel to Fort William in Scotland.  
Don finds this information about travel times.

**Travel times between  
London and Fort William**

 Night bus	14 hours 11 minutes
 Drive	8 hours 42 minutes
 Fly	6 hours 31 minutes

How much longer does it take to travel by the night bus than to fly?

**[1 mark]**

Your answer:	

**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:

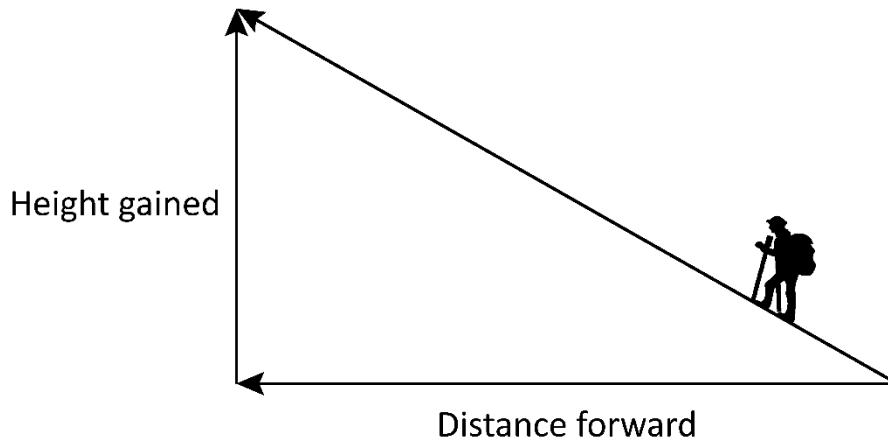
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**Please turn over**

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.



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.

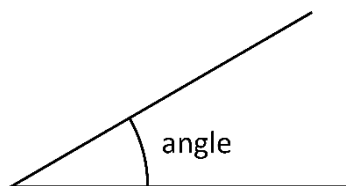
[5 marks]

Blank area for the student to show their working out.

Your answer:

hours

- 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.



[1 mark]

- The angle is less than  $5^\circ$
- The angle is between  $5^\circ$  and  $12^\circ$
- The angle is more than  $12^\circ$  but less than  $90^\circ$
- The angle is more than  $90^\circ$

- 1 (f)** When Don arrives in Fort William

- the temperature at the bottom of Ben Nevis is  $3^\circ\text{C}$
- the temperature at the top of Ben Nevis is  $-6^\circ\text{C}$

Calculate the difference in temperature between the top and bottom of Ben Nevis.

[2 marks]

Your answer:

degrees

Please turn over

**1 (g)** The weather forecast says that, at the top of Ben Nevis at 2pm there is

- a 20% chance of snow
- a  $\frac{3}{10}$  chance of rain.

Is it more likely to snow or rain?

Show your working.

**[2 marks]**

Your answer:

**[Total marks: 15]**

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



