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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.

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

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 [ ]

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

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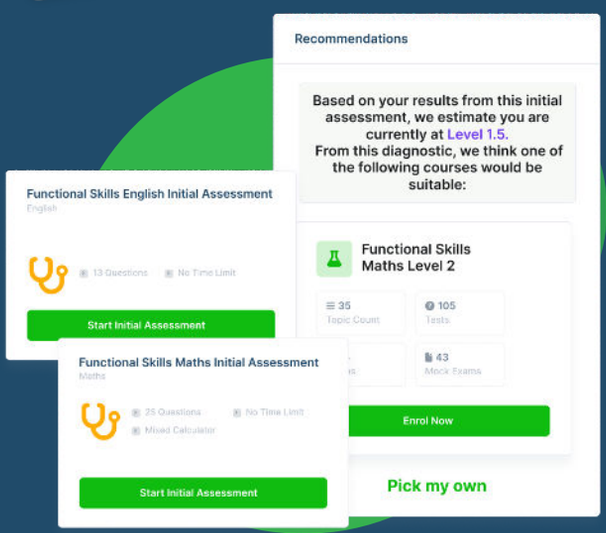
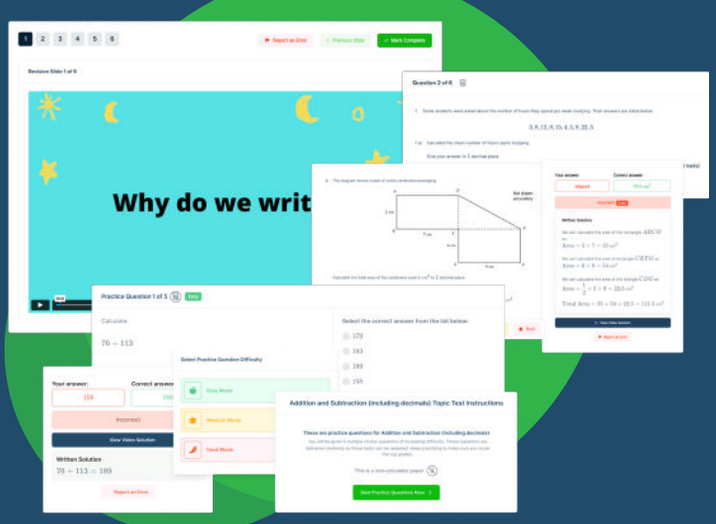
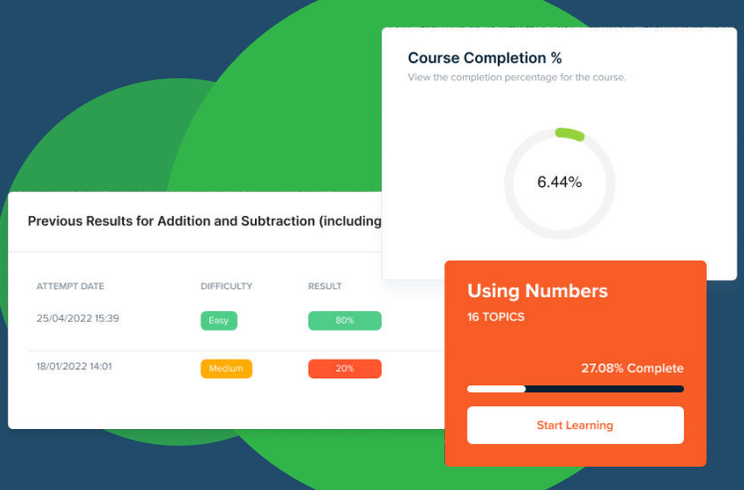


- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam

- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions





- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

Or visit
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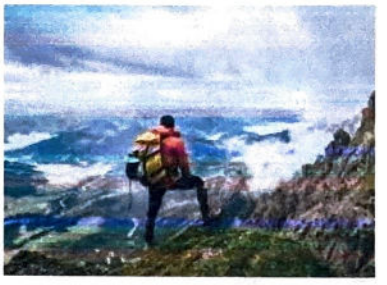
Activity 1: Climbing mountains

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]

20 ÷ 4 = 5

2011 2012 2013 2014 (2015)

Your answer: 2015

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: 7 h 40 m

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]

£176 × 0.15 = £26.40

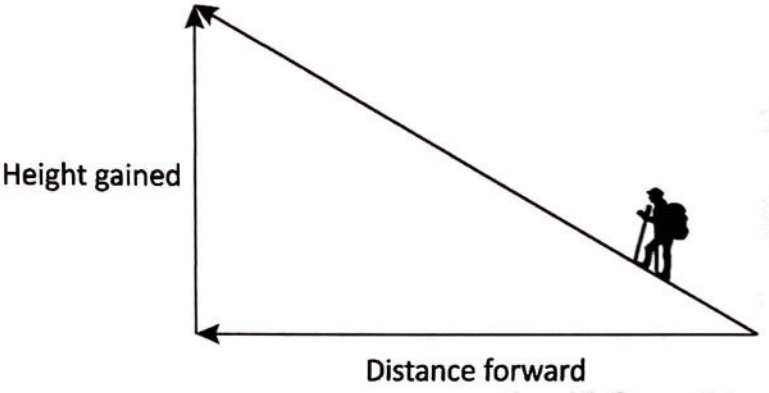
Your answer: £ 26.40

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.

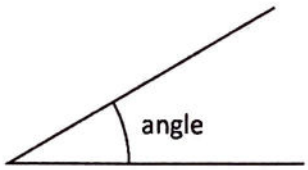
[5 marks]

17 × 12 = 204 mins
1345 ÷ 100 = 13.45
13.45 × 10 = 134.5 mins
204 + 134.5 = 338.5 mins
= 5h 38m 30s
6 hours to nearest hour.

Your answer: 6 **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°
- ☐ The angle is between 5° and 12°
- ☑ The angle is more than 12° but less than 90°
- ☐ The angle is more than 90°

1 (f) When Don arrives in Fort William

- the temperature at the bottom of Ben Nevis is 3 °C
- the temperature at the top of Ben Nevis is –6 °C

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

[2 marks]

3 − −6 = 9

Your answer: 9 **degrees**

Please turn over

Examiner use only

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]

$\frac{3}{10} = 30\% > 20\%$

More likely to rain

Your answer: rain

[Total marks: 15]

This is the end of Section A.

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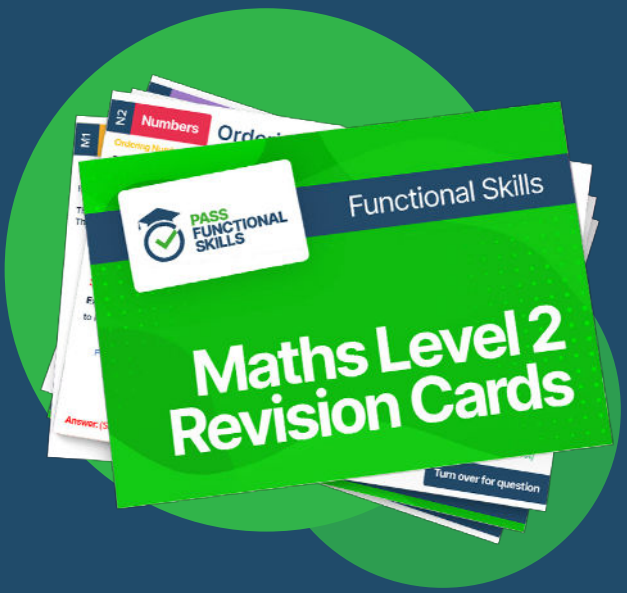

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