

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

Paper number: SAM  
Section A: Non-calculator Test



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.

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

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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**Activity 1: Driving test**

- 1 (a)** Sam wants to get a driving licence.

He reads that, in the UK, about three-quarters of a million new drivers get a licence each year.

Write 'three-quarters of a million' as a number.

**[2 marks]**

Your answer:	

- 1 (b)** Sam must pass the theory test before he can take the driving test.

To pass, he needs 43 out of 50 marks on the first part of the theory test.

Calculate 43 out of 50 as a percentage.

**[1 mark]**

Your answer:	%

**Please turn over**

- 1 (c)** At 10 miles per hour, the calculation for stopping distance in feet is  $10 + 0.05 \times 10^2$

To work this out Sam does:

$$10 + 0.05 = 10.05$$

$$10.05 \times 10^2 = 10.05 \times 100$$
$$= 1005$$

- i. Explain where Sam has gone wrong.
- ii. Calculate the correct stopping distance at 10 miles per hour.

**[2 marks]**

Your answer: <span style="border: 1px solid black; display: inline-block; width: 200px; height: 30px; vertical-align: middle;"></span> <b>feet</b>

**1 (d)** This is a formula for calculating braking distance:

$$\text{Braking distance in feet} = 0.05 \times (\text{speed in mph})^2$$

At 25 mph the braking distance is 31.25 feet.

A driver accelerates from 25 mph to 60 mph.

What is the increase in braking distance?

**[4 marks]**

Your answer:	<div style="border: 1px solid black; height: 40px; width: 100%;"></div> <div style="text-align: right; padding-top: 5px;"><b>feet</b></div>
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**Please turn over**

1 (e) Sam is 17 years old.

He decides to book 30 hours of lessons with the Accelerate School of Motoring.



SCHOOL OF MOTORING

### PRICES

- **Option 1** – Single lessons

1 hour lesson for £21.65 each  
**Driving Test not included**

**BUY NOW** 

- **Option 2** – 5 day course

30 hours of lessons for £710  
**Including Driving Test**  
**15% discount for under 20s**

**BUY NOW** 

Calculate 15% of £710

[2 marks]

Your answer:	£

**1 (f)** The driving test costs £62

How much money will Sam save by booking Option 2 instead of Option 1?

**[4 marks]**

SAMPLE

Your answer: £

**[Total marks: 15]**

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

SAMPLE