

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

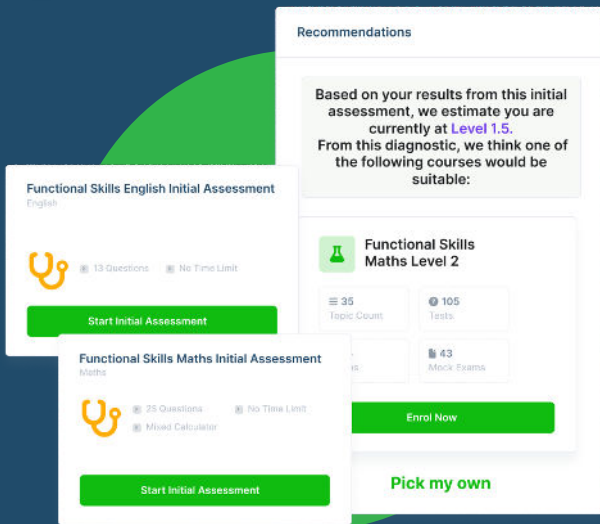
Centre number

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

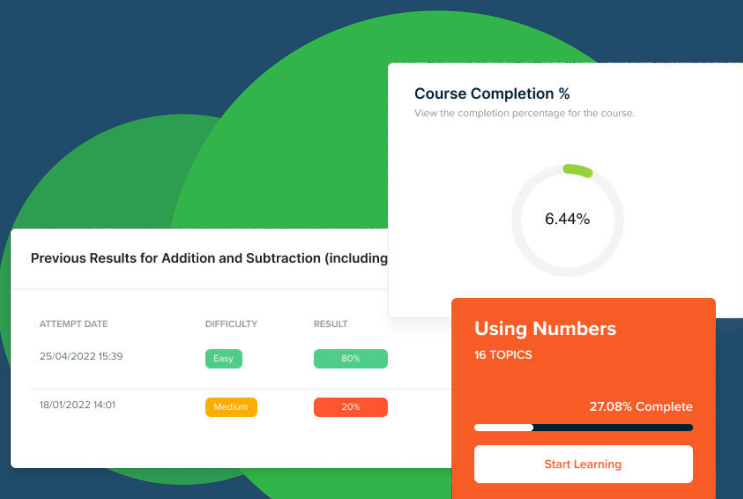
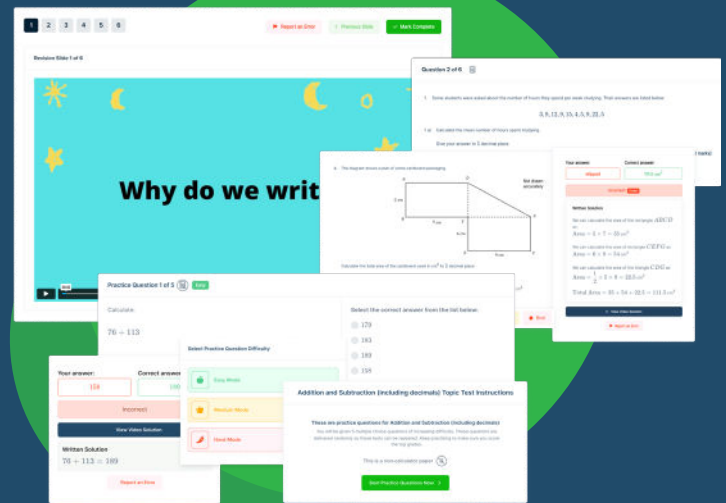


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- ✓ Always know the level you are currently working at
- ✓ Determine when you are ready to sit your exam



- ✓ Explainer videos on every topic
- ✓ Quick-fire style multiple choice questions
- ✓ Test your knowledge with exam-style questions
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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]

SAMPLE

Your answer:

750 000

- 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]

$\frac{43}{50} = \frac{86}{100} = 86\%$

Your answer:

86

%

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:

$$10 + 0.05 = 10.05$$

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

$$= 1005$$

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

[2 marks]

BIDMAS he should have done 10^2
then multiplied then
added.

$$10 + 0.05 \times 10^2 = 10 + 0.05 \times 100$$
$$= 10 + 5 = 15$$

Your answer:

15

feet

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]

$$0.05 \times 60^2 = 180$$

$$180 - 31.25 = 148.75 \text{ ft.}$$

Your answer:


148.75

feet

Please turn over

1 (e) Sam is 17 years old.

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



Accelerate
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]

$15\% = 0.15$

$0.15 \times \text{£}710 = \text{£}106.50$

Your answer:

£ 106.50

1 (f) The driving test costs £62

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

[4 marks]

$$30 \times 21.65 = 649.50$$

$$649.50 + 62 = £711.50$$

$$£710 - £106.50 = £603.50$$

$$£711.50 - £603.50 =$$
$$£108$$

Your answer:

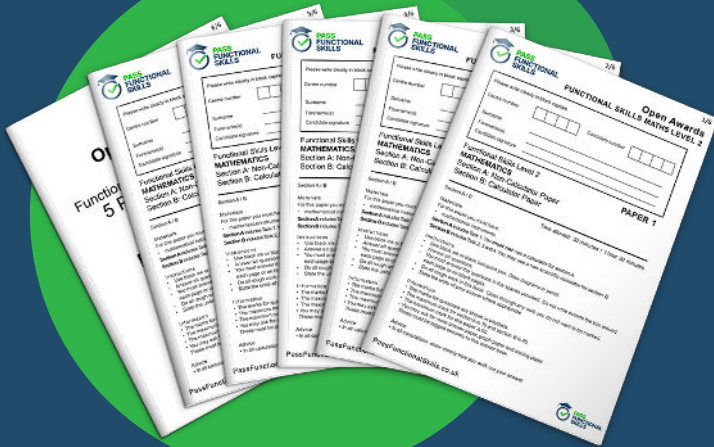
£ 108

[Total marks: 15]

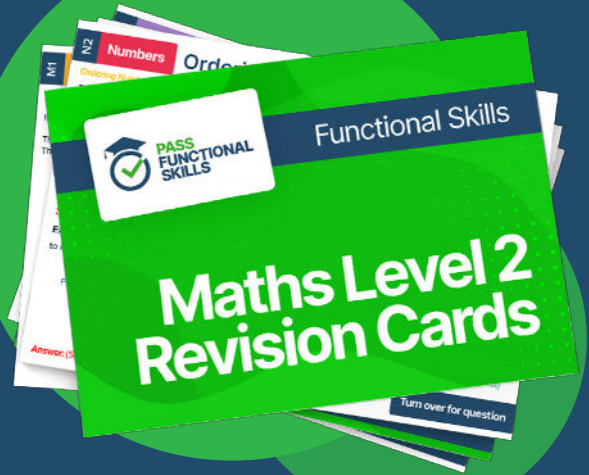
This is the end of Section A.



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