NCFE

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

Paper number:	P001371
Section A:	Non-calculator Test

Assessment window: Monday 7 September 2020 – Friday 11 September 2020
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.
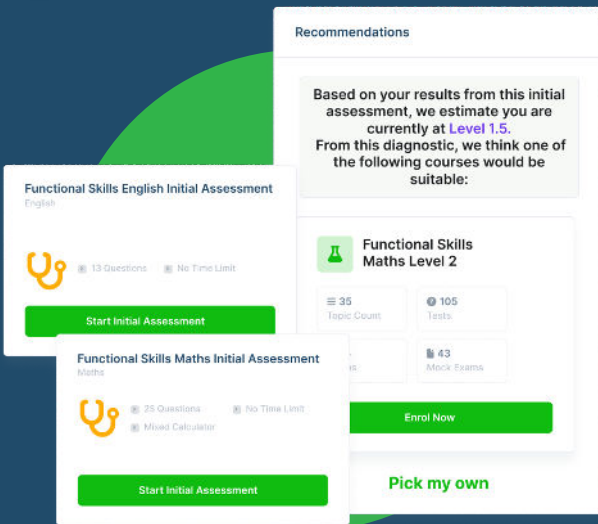
Learner name _____

Centre name _____

Learner number [   ]   Centre number [   ]
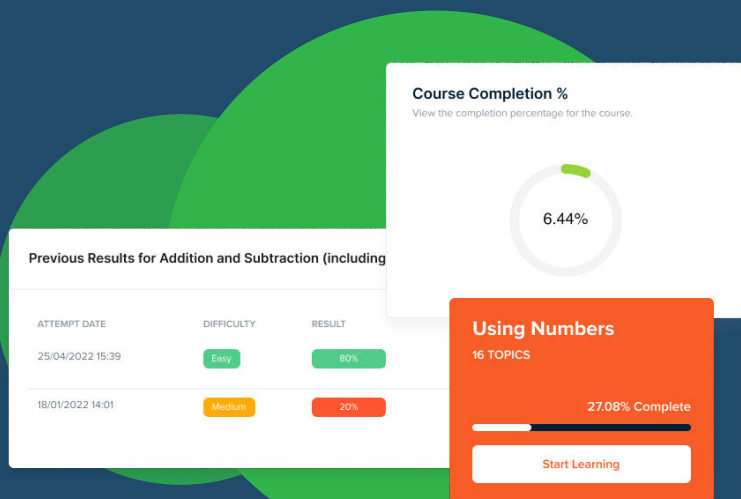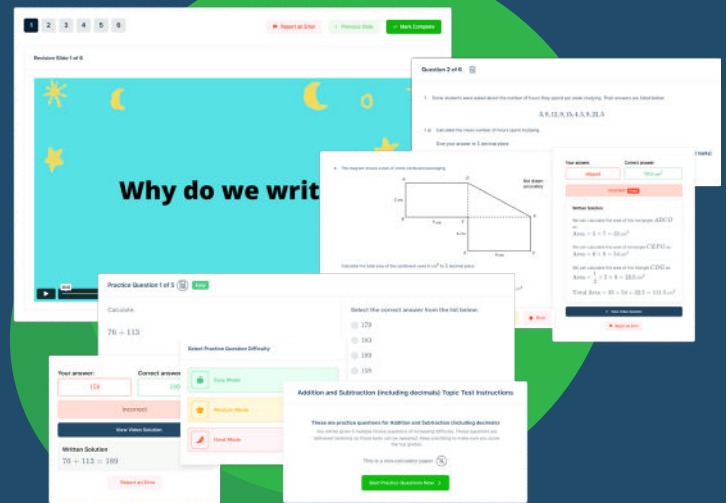
Do not turn over until the invigilator tells you to do so.

FUNCTIONAL SKILLS ONLINE COURSES

PASS FUNCTIONAL SKILLS

Recommendations

Based on your results from this initial assessment, we estimate you are currently at Level 1.5.
From this diagnostic, we think one of the following courses would be suitable:

Functional Skills Maths Level 2

- ≡ 35 Topic Count
- 🕐 105 Tests
- 📄 43 Mock Exams

Enrol Now

Pick my own

Functional Skills English Initial Assessment
English
- ☑ 13 Questions   ☑ No Time Limit

Start Initial Assessment

Functional Skills Maths Initial Assessment
Maths
- ☑ 25 Questions   ☑ No Time Limit
- ☑ Mixed Calculator

Start Initial Assessment

✅ 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

Why do we writ

Course Completion %
View the completion percentage for the course.

6.44%

Previous Results for Addition and Subtraction (including

ATTEMPT DATE	DIFFICULTY	RESULT
25/04/2022 15:39	Easy	80%
18/01/2022 14:01	Medium	20%

Using Numbers
16 TOPICS
27.08% Complete
Start Learning

✅ 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
passfunctionalskills.co.uk

Activity 1:   Boarding kennels

1 (a)   Boarding kennels look after cats and dogs.

Linda is setting up a boarding kennel business.

She researches other kennels and finds that:

- $\frac{3}{8}$ of kennels take dogs only

- $\frac{2}{5}$ of kennels take cats only.

Linda thinks that more kennels take dogs only than take cats only.

Is she correct?

Show how you decide.

[2 marks]

$$\frac{3}{8} \xrightarrow{\times 5} \frac{15}{40} \text{ dogs}$$

$$\frac{2}{5} \xrightarrow{\times 8} \frac{16}{40} \text{ cats}$$

No there are more that take cats only

Your answer: N O

Examiner use only
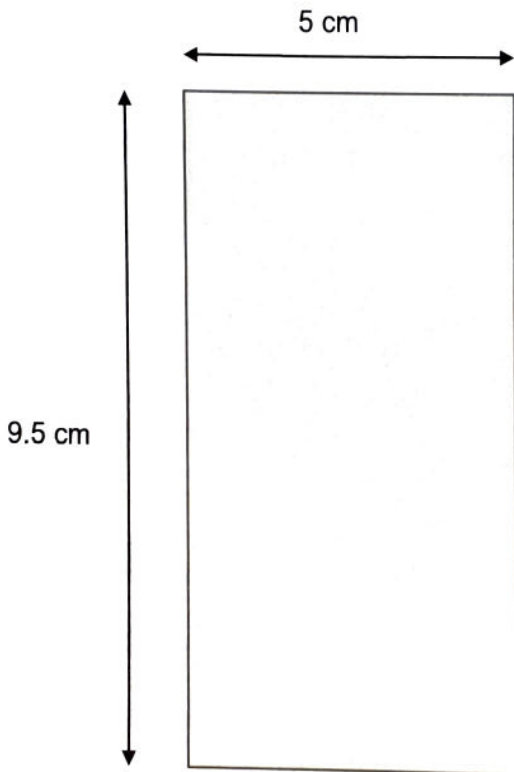
1 (b)   Boarding kennels have enclosures
where the animals sleep.

Each enclosure must be a
minimum of 1.8 m high and 0.9 m wide.

This is a scale diagram showing the front
view of an enclosure Linda wants to install.

5 cm

Scale 1 cm : 20 cm

9.5 cm

Is this enclosure big enough?

Show how you decide.

[4 marks]

1 cm   20cm

5cm × 20 = 100cm (1m)
9.5cm × 20 = 190cm (1.9m)

Yes it is big enough (100m × 190m)

Your answer: Yes

Please turn over

1 (c)   Linda knows the ratio of staff to dogs needs to be 1 : 15

How many staff will she need for 30 dogs?

[1 mark]

1 staff : 15 dogs
2 staff : 30 dogs

Your answer: 2

1 (d)   Linda places an online advert for her business.

She pays £0.98 each time someone clicks on her advert.

How much will it cost her if 100 people click on her advert?

[1 mark]

$0.98 \times 100 = £98$

Your answer: £ 98

1 (e) Linda looks at the cost of placing 6 half-page adverts in a local newspaper:

Advert size	Cost	
	3 Adverts	6 Adverts
Full Page	£330	£600
Half Page	£240	£450
Quarter Page	£150	£270

Linda sees these offers:

- **Offer A:** place 3 adverts and get 10% off the cost.

- **Offer B:** place 6 adverts and get $\frac{1}{5}$ off the cost.

She chooses **Offer B**.

How much will she save by choosing **Offer B** instead of **Offer A**?

[4 marks]

Offer B: 2 x £240 x 0.9
= £432

Offer B: £450 * – (£450 ÷ 5) = £360

She will save

£432 – £360 = £72

Your answer: £ 72

Examiner use only

1 (f)   Linda also sells pet food.

The table shows Linda's takings in the first week:

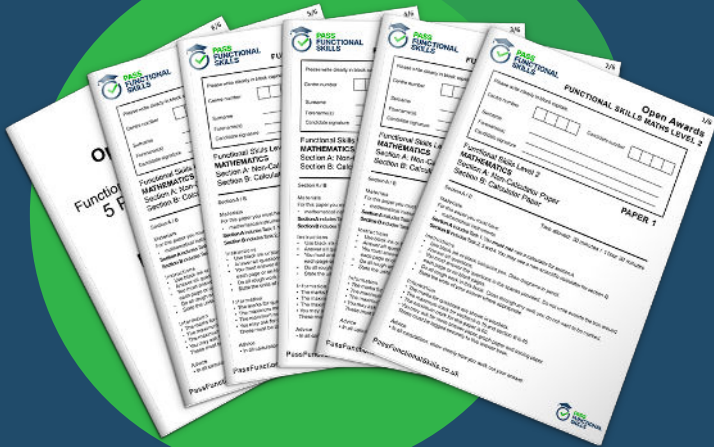| £10.50	£5	£6.30	£7.20	£15	£8	£14.20	£6.50	£8
£5.67	£10.60	£13	£14.50	£15.78	£7.50	£3.40	£5.60	£4.55

Complete the frequency table for this data.

[3 marks]

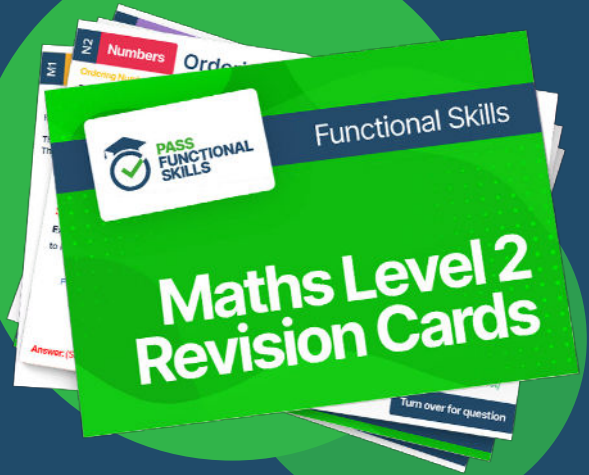| Takings	Frequency
£0 – £4.99	2
£5 – £9.99	9
£10 – £14.99	5
£15+	2
Total:	18

[Total marks: 15]

This is the end of Section A.

**Functional Skills Maths
Level 2 Practice Papers**

**Functional Skills Maths
Level 2 Revision Cards**

**Functional Skills English Level 2
Practice Papers & Revision Cards**

**Functional Skills Maths
Level 2 Pocket Revision Guide**

Or visit
passfunctionalskills.co.uk