Functional Skills Model Solutions

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Maths Level 2   Maths Level 1

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NCFE Entry Level 3 Functional Skills Qualification in Mathematics (603/5061/1)

Paper number:	Paper 2
Section B:	Calculator Test

Time allowed: 1 hour 15 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.
- This shows you where to write your working and answers.
- State units in your answers, where appropriate.
- Check your work.

Learner information
- The maximum mark for this section is **30**.
- The marks available for **each** question are shown in brackets.

To be completed by the assessor		Mark
B	Activity 2	/ 10
	Activity 3	/ 10
	Activity 4	/ 10

Resources
You will need:
- a pen, with black or blue ink
- a pencil and eraser
- a 30cm ruler
- a calculator.

Please complete the details below clearly and in BLOCK CAPITALS.
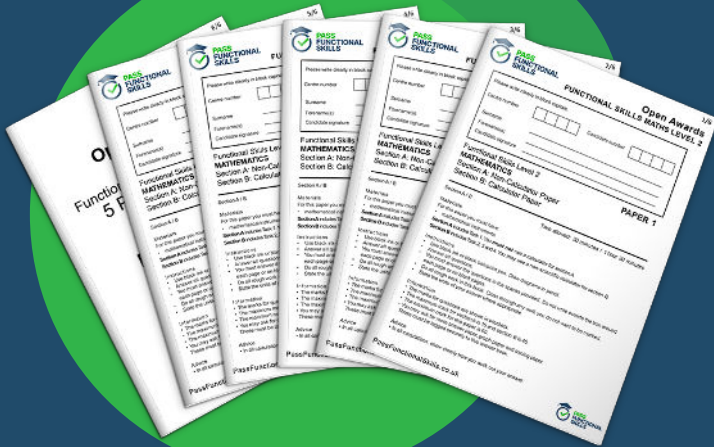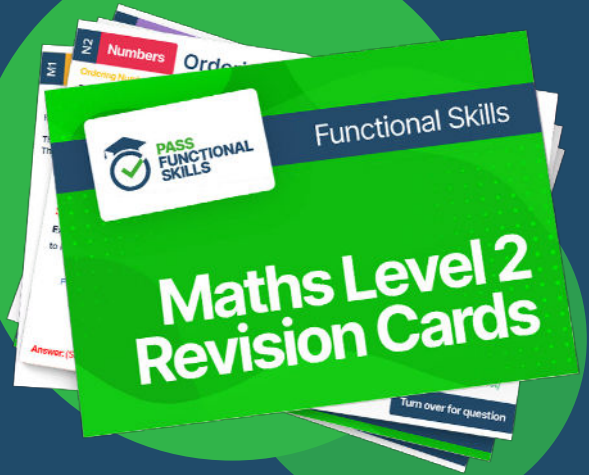
Learner name _____

Centre name _____

Learner number [_____] Centre number [_____]

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

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**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**

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Activity 2: Planning the food
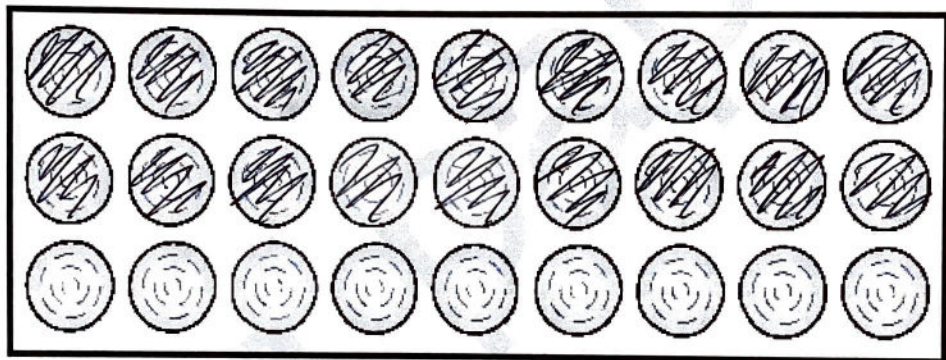
Umar is a chef at the restaurant.

He needs to plan his menu.

2(a) There are 27 trifles on a tray.

Umar needs $\frac{2}{3}$ of the trifles for tonight's party.

Shade $\frac{2}{3}$ of the total number of trifles.
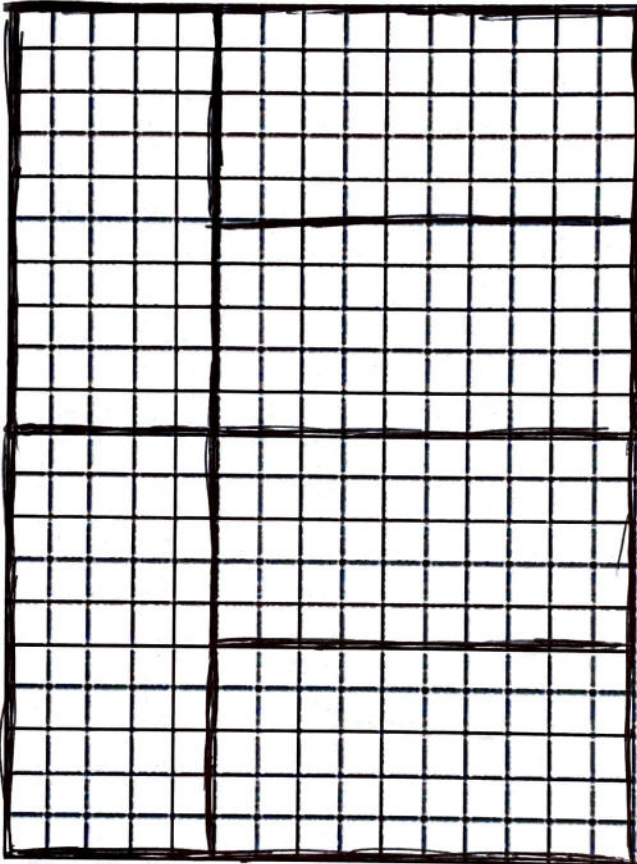
[2 marks]

2(b)   Umar makes shortbread.

He uses a tin that is 15 cm wide and 20 cm long.

Each piece of shortbread needs to be 5 cm wide and 10 cm long.

Show how Umar can cut six pieces of shortbread.

[3 marks]

1 square = 1 cm

Diagram is not drawn to scale

Please turn over

3

2(c) Umar uses a recipe to make the pieces of shortbread.

The recipe makes six pieces of shortbread

- 75 g butter
- 33 g caster sugar
- 96 g plain flour

How much plain flour will Umar need to make 18 pieces of shortbread?

[3 marks]

$$\frac{18}{6} = 3.$$

$$96g \times 3 = 288g.$$

2(d)   Umar gets a list of dessert orders for a party of guests.

Here is the list.

Ben:	**trifle**
Karen:	**cheesecake**
Gareth:	**shortbread**
Lilly:	**trifle**
Dean:	**cheesecake**
Lauren:	**cheesecake**
Denise:	**trifle**
Katie:	**shortbread**

Fill in the frequency table with the dessert orders.

[2 marks]

Dessert	Number
Trifle	3
Cheesecake	3
Shortbread	2

[Total marks: 10]

Please turn over

Activity 3: Deliveries

Daniel handles all of the deliveries for the restaurant.

3(a)   Daniel gets a delivery of vegetables.

- 3 kg of potatoes
- 1000 g of carrots
- 2 kg of onions
- 950 g of leeks

Which vegetable is the heaviest?

[1 mark]

Potatoes

3(b)   Daniel also gets a delivery of 320 soft drinks for the bar.

There are 20 drinks in a box.

How many boxes are there?

[2 marks]

$$\frac{320}{20} = 16.$$

6

3(c) Daniel needs straws for the bar.

He can buy packs with different amounts.

They go up in sequence.

How many straws are in the next three packs?

Put your answers in the spaces below.

[2 marks]

20   30   40   50   _60_   _70_   _80_

3(d) Daniel wants to order 500 straws.

He finds two offers.

Enviro Straws

£3.40 for 40

Eco Straws

£4.00 for 50

How much will the Eco Straws cost?

[2 marks]

$$\frac{500}{50} = 10$$

$$10 \times £4 = £40.$$

Please turn over

7

3(e) Daniel buys 500 straws from Enviro Straws and 650 from Eco Straws.
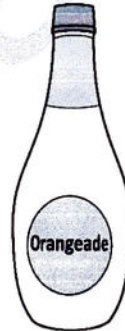
Write these numbers in words.

[2 marks]

> Five hundred
>
> Six hundred and fifty.

3(f) Some samples of new drinks arrive.

1.5 litres   **1000 ml**
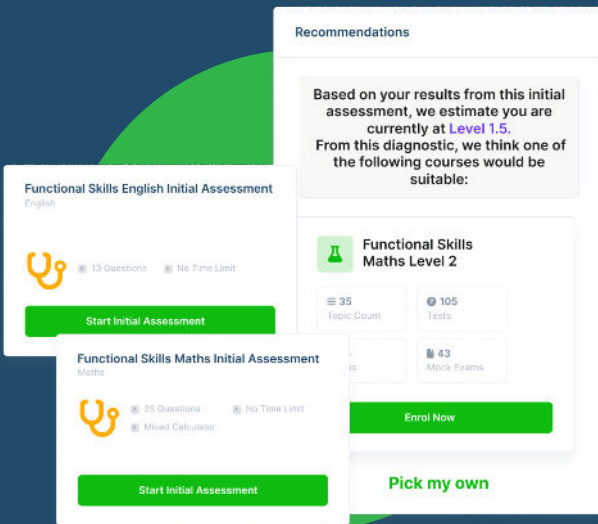
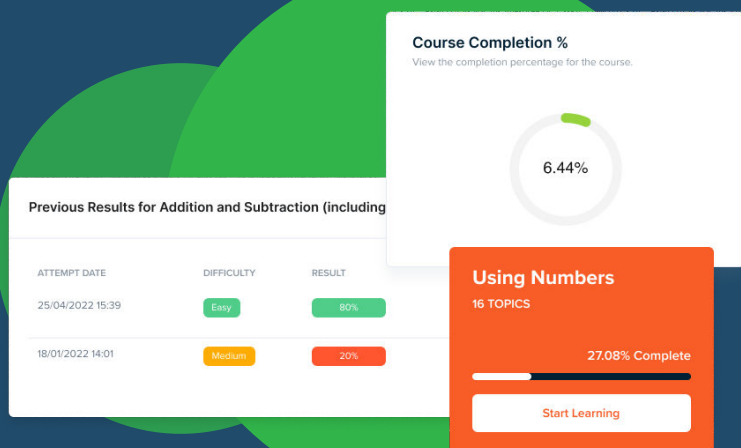Which bottle has the most in it?
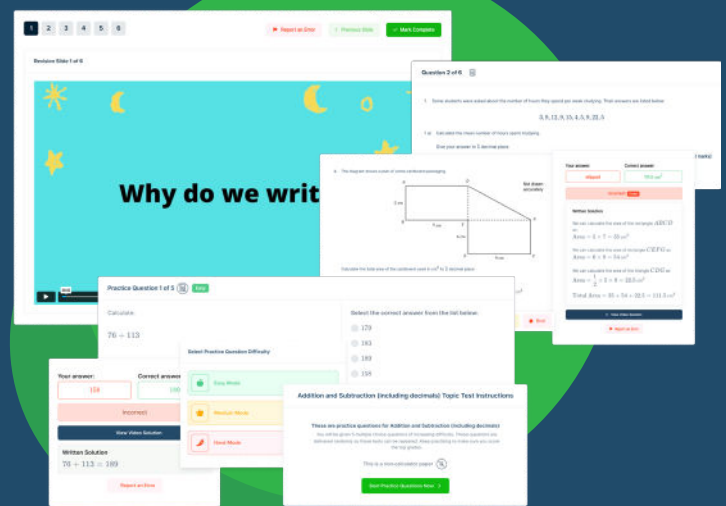
[1 mark]

> Lemonade.

[Total marks: 10]

8

FUNCTIONAL SKILLS ONLINE COURSES

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 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

Functional Skills
Maths Level 2

35 Topic Count   105 Tests

43 Mock Exams

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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

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

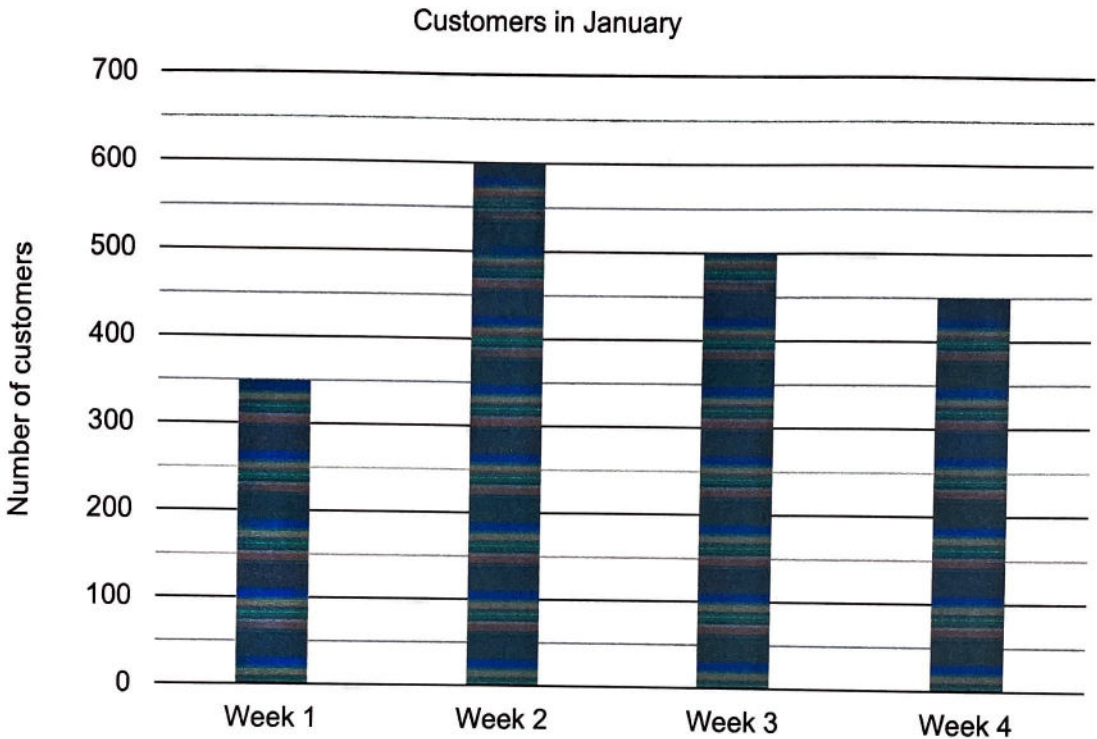✅ View historical attempts to analyse your progress over time

Or visit
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Activity 4: The restaurant manager

Nick is the restaurant manager.

He keeps records of customer numbers.

4(a)   Nick compares the number of customers for each week in January.

Customers in January

How much more is the highest number than the lowest number of customers?
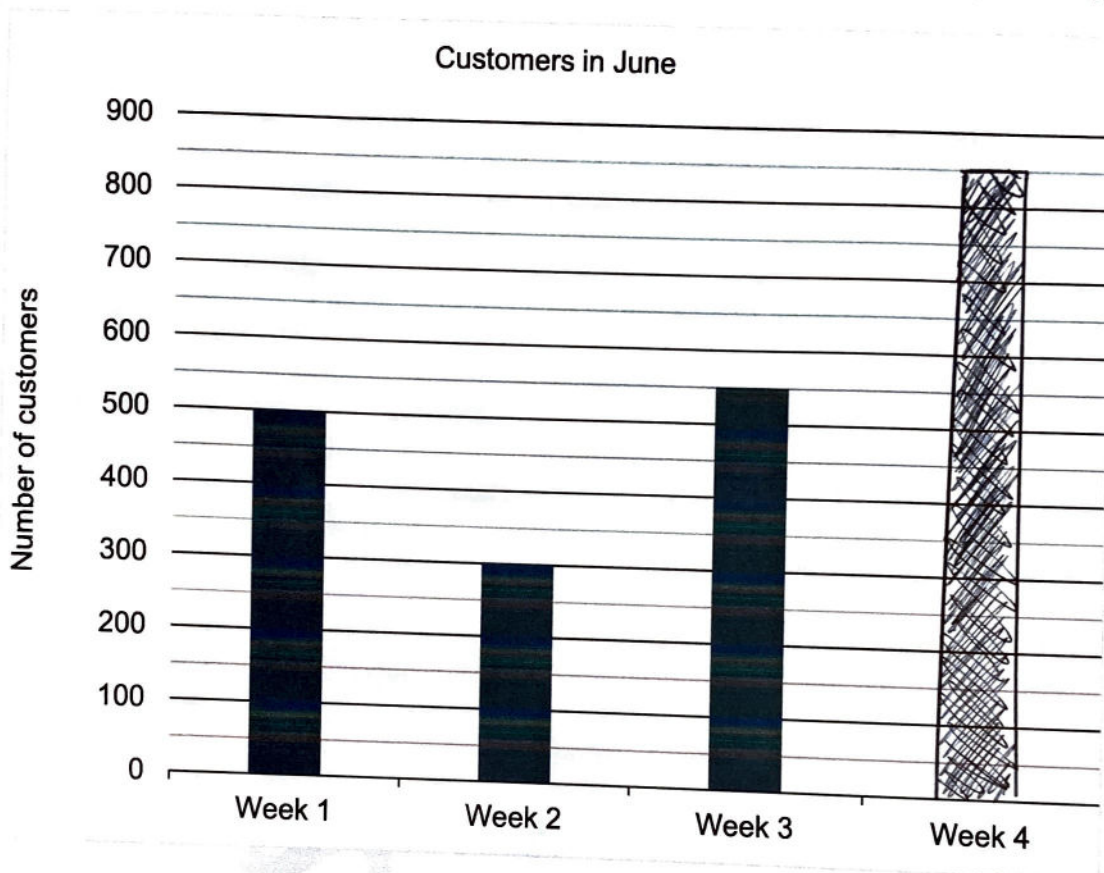
[2 marks]

$600 - 350 = 250$

4(b) Another bar chart shows the number of customers in June.

Nick knows that in Week 4 they had the same number of customers as Week 2 and Week 3 together.

Complete the bar chart for Week 4.

[3 marks]

Customers in June

4(c)   What is the total number of customers in Week 1 and Week 2?

[2 marks]

$$500 + 300 = 800$$

4(d)   Nick notices that the restaurant is very busy between 6.20 pm and 9.45 pm.
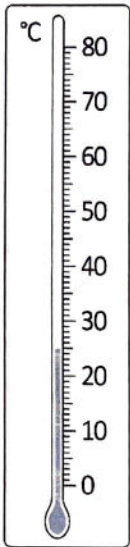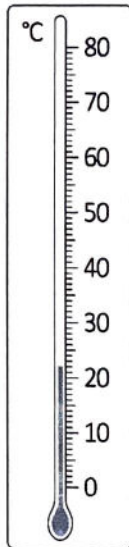
How long is this in hours and minutes?

[1 mark]

3 hours and 25 minutes.

Please turn over

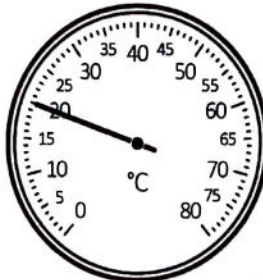**4(e)** Nick also studies how many customers like to sit outside.

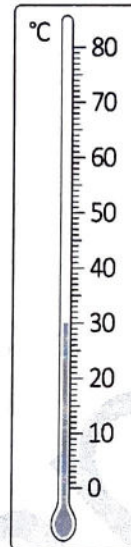The number of people sitting outside increases as the temperature goes up.
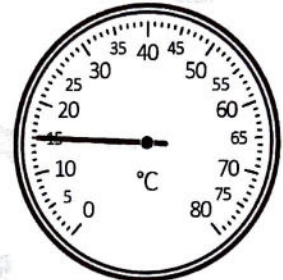

| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

On which day did most people sit outside?

Explain your answer.

[2 marks]

Thursday, it is the hottest day.

[Total marks: 10]

This is the end of the assessment.

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