

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

Paper number:	P001254	
Section B:	Calculator Test	

Assessment window: Time allowed: Monday 9 December 2019 – Friday 13 December 2019 1 hour 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 B contains Activities 2, 3 and 4.
- The maximum mark for this section is 45.
- 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
- calculator.

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 2: Healthy-eating café

2 (a) John is opening a healthy-eating café.

He looks for a property with a seating area for 20 customers.

This is a scale plan of the seating area in one property he finds.

The drawing has a scale of 1 centimetre (cm): 150 cm



The recommended maximum number of customers in a café is the seating area (m²) divided by 1.5

Is this property suitable for 20 customers? Show how you decide.

[5 marks]

 $3 \times 150 = 450 \text{ cm} = 4.5 \text{ m}$ $4 \times 150 = 600 \text{ cm} = 6 \text{ m}$ $4.5 \times 6 = 27 \text{ m}^2$. 27-1.5=18 220 No No. Your answer:

Please turn over

2 (b) Another property has What is <u>7</u>²? Another property has a kitchen that has an area of 7 metres squared. [1 mark] $7^{2} = 49$ Your answer: 2 (c) John wants his menu to offer healthy food. He reads that six hundred and seventeen thousand people went to hospital last year with illnesses caused by a poor diet. What is six hundred and seventeen thousand in numbers? [1 mark] 617000 Your answer: 4

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2 (d) John buys food in preparation for his opening day.

Ingredients	Price per item	Number of items	Total price per ingredient
Cabbage	64p	5	$f0.64 \times 5 = f3.20$
Pack of carrots	30p	20	$f 0.30 \times 20 = f 6.00$
Pack of tomatoes	£1.25	11	£1-25 × 11 = £13-75
Cucumbers	50p	9	£0.50×9=£4.50
Pack of onions	£1.00	15	£1.00 ×15 = £ 15.00
		Total (£)	£42.45

Complete the table to show how much has John spent.

[2 marks]

Please turn over

John fills a fruit bowl with 6 apples, 4 plums, 5 oranges and 3 pears.

The first customer chooses a piece of fruit at random.

What is the probability that they choose a pear?

[2 marks] 6+4+5+3 =18 $\frac{3}{18} = \frac{1}{6}$ Your answer: John looks at the bills from all the customers. 2 (f) The range of amounts spent is £22.46 The largest bill was £24.56 What was the smallest bill? [2 marks] $f_{24.56} - f_{22.46} = f_{2.10}$ £ 2.10 Your answer:

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- 2 (g) John asks his customers to rate the café.
 - The customers give four times as many **good** ratings as **excellent** ratings.
 - The customers also give three times as many excellent ratings as satisfactory ratings.

60 customers rated the café as good.

How many customers rated the café as satisfactory?

[2 marks] Good = 60Excellent = $60 \div 4 = 15$ Satisfactory = $15 \div 3 = 15$ Your answer: customers [Total marks: 15]

Go-karting

Hamid organises a go-karting party for himself and five friends. 3 (a) The cost is £29.95 per person.

He uses rounding to estimate the cost for the whole group.

How much is the estimated cost?

[2 marks]

 $f29.95 \simeq f30$ $f30 \times 6 = f180$ £ 180 Your answer: Hamid needs to book transport. 3 (b) A small minibus will cost £45 He has a voucher for 5% off. How much will the minibus cost Hamid? [2 marks] E45 × 0,95 = £42.75 € 42.75 Your answer: 8



The safety instructions show a plan view of the go-kart.



Hamid says that the go-kart is 1.5 m high, 2 m long and 0.6 m wide.

Is Hamid correct?

Explain your answer.

[1 mark]

No The go-kart is 1.5m wide.

3 (d)	This table sho first lap.	ows the times Hamid and	two of his friends take to complete	e their
		Person	Time in seconds	
		Hamid	39.041	
		Jane	39.3	
		Ikrah	39.12	
	Write these tir	mes in order of fastest to	o slowest.	
				1 ma
	Fas	test 39.04 3	9.12 39.3 Slowest	ALC:
3 (e)	Which person	had the fastest lap?		1 mai
		Your answer	: Handd	
	Alite			
	an in			

3 (f) Hamid looks at the times on the leader board for that day.

The times are in seconds.

Le	ader board	1
1 st	26.52	1
2 nd	27.5	
3 rd	28.9	
4 th	29.82	
5 th	30.18	
6 th	31.2	
7 th	31.4	

Calculate the mean time.

 $\frac{26 \cdot 52 + 27 \cdot 5 + 28 \cdot 9 + 29 \cdot 82 + 30 \cdot 18 + 31 \cdot 2 + 31 \cdot 4}{7} =$ $29 \cdot 36$ Your answer: 29.36 seconds

[2 marks]

PassFunctionalSkills.co.uk **3 (g)** Here are people's lap 21

Here are people's lap times in seconds over the last week:

21 34 27 36 27 38 22 30 40 21 29 32 20 26 37 31 22 33 27

Using the lap times complete this frequency table:

L	ap time in seconds	Frequency of people	
	20 – 25	5	
	26 - 30	6	
	31 – 35	4	
	36 – 40	4	

Plot your results on this bar chart.

[4 marks]



3 (h) The friends go to lunch after they have raced.

Bethany has a voucher giving her 35% off.

2 = 40% 35% < 40%

Your answer:

Ikrah has a voucher for $\frac{2}{5}$ off.

Who has the better discount?

Show how you decide.

[2 marks]

Please turn over

[Total marks: 15]

Ikrah

Activity 4: Childcare

Childcare course

Natalie teaches a childcare course.

She is planning a trip with 16 students.

They have volunteered to work for two weeks abroad.

They need to raise £2000 per student to pay for the trip.

They have already raised $\frac{7}{8}$ of the money needed.

How much money have they raised so far?



4 (a)

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4 (c) Natalie packs children's clothes into boxes.

Each box is a cube with side lengths of $\underline{50 \text{ cm}}$

The clothes weigh 350 grams (g) per 500 cm³

Calculate the weight of the clothes in each box when the box is full.

Give your answer in kg



[4 marks]



A (d) When the group get When the group get on the plane the pilot announces that the temperature is 10 °C at their destination.

It is -2 °C in the UK.

What is the difference in temperature from the UK to their destination?

[1 mark] 10 - 2 = 10 + 2 = 12°C Your answer:

4 (e) The volunteers are going to help children in a home.

The ratio of boys to girls in the home is 1:3

There are 80 children in total.

75% of the boys and 40% of the girls are under 10

How many boys and how many girls are under 10?









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