

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

Paper number: P001254

Section B: Calculator Test



Assessment window: Monday 9 December 2019 – Friday 13 December 2019

Time allowed: 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.

_earner name		
Centre name		
	7	
_earner number	Centre number	

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

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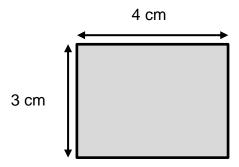
Activity 2: Healthy-eating café

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.

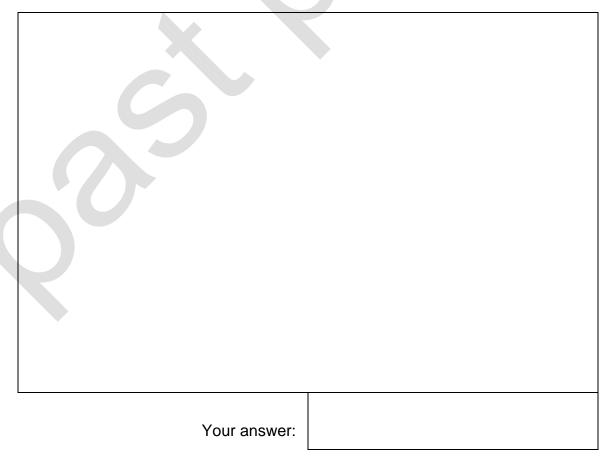
The drawing has a scale of 1 centimetre (cm):150 cm



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]



Please turn over

2 (b)	Another property has a kitchen that has an area of 7 metres squared.
	What is 7 ² ?
	[1 mark]
	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]
	Your answer:

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	
Pack of carrots	30p	20	
Pack of tomatoes	£1.25	11	
Cucumbers	50p	9	
Pack of onions	£1.00	15	
		Total (£)	

Complete the table to show how much has John spent.	[2 marks]

2 (e)	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?	marks]
	Your answer:	
- 40		
2 (f)	John looks at the bills from all the customers.	
	The range of amounts spent is £22.46	
	The largest bill was £24.56	
	What was the smallest bill? [2	marks]
	Your answer: £	

- **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?

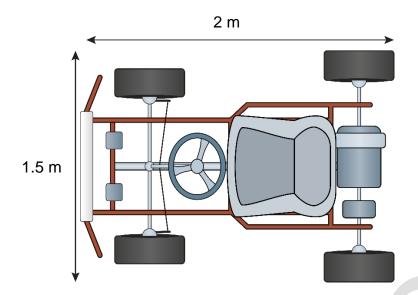
[2 marks]

Your answer: customers

[Total marks: 15]

Activity	3: Go-karting
3 (a)	Hamid organises a go-karting party for himself and five friends.
	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]
3 (b)	Your answer: £ Hamid needs to book transport. A small minibus will cost £45
	He has a voucher for 5% off.
	How much will the minibus cost Hamid?
	[2 marks]
	Your answer: £

3 (c) 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]

3 (d) This table shows the times Hamid and two of his friends take to complete their first lap.

Person	Time in seconds
Hamid	39.041
Jane	39.3
Ikrah	39.12

Write these times in order of fastest to slowest.

[1 mark]

Fastest		Slowest	t

3 (e) Which person had the fastest lap?

11 marki	Γ1	mark]
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our answer:	

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

The times are in seconds.

Le	ader board
1 st	26.52
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.

Your answer: seconds

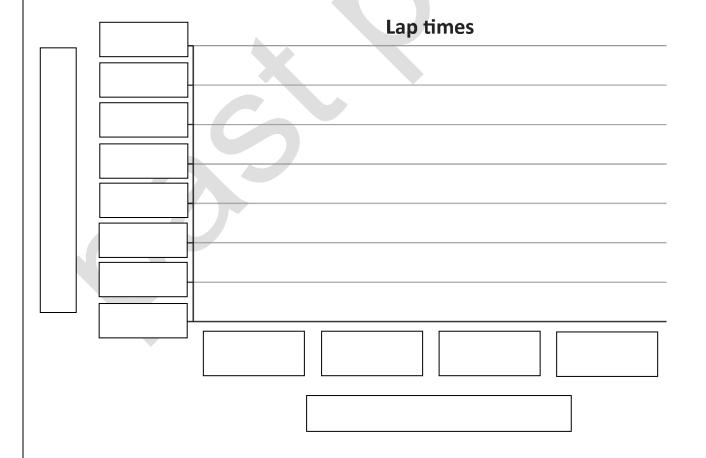
3 (g) Here are people's lap times in seconds over the last week:

Using the lap times complete this frequency table:

Lap time in seconds	Frequency of people
20 – 25	
26 – 30	
31 – 35	
36 – 40	

Plot your results on this bar chart.

[4 marks]



3 (h)	The friends go to lunc	h after they have raced.
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Bethany has a voucher giving her 35% off.

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

Who has the better discount?

Show how you decide.

[2 marks]

Your answer:

[Total marks: 15]

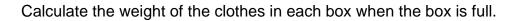
Activity 4:	Childcare	course

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4 (a)	Natalie teaches a childcare course.	
	She is planning a trip with 16 students.	
	They have volunteered to work for two v	weeks abroad.
	They need to raise £2000 per student to	p pay for the trip.
	They have already raised $\frac{7}{8}$ of the mone	ey needed.
	How much money have they raised so f	ar? [3 marks]
	Your answer:	£
4 (b)	They have one eighth left to raise.	
	Write one eighth in figures.	[1 mark]
	Your answer:	

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

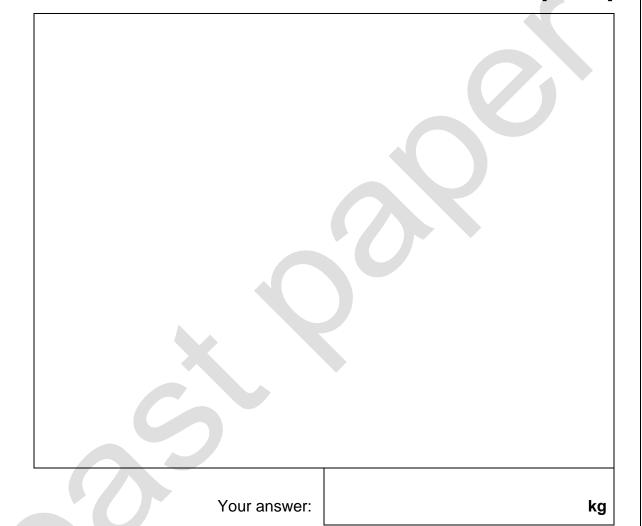
Each box is a cube with side lengths of 50 cm

The clothes weigh 350 grams (g) per 500 cm³



Give your answer in kg





4 (d)	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]		
	Vour answer:		

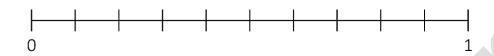
4 (e)	The volunteers are going to help childre	n in a home.		
	The ratio of boys to girls in the home is 1:3			
	There are 80 children in total. 75% of the boys and 40% of the girls are under 10			
	How many boys and how many girls are	under 10?	[4 marks]	
	Your answer:	Boys:		
		Girls:		

4 (f) Natalie knows that only 60% of the children can write their name.

She chooses one of the children at random to work with.

On the scale, mark the probability that this child can write their name.

[1 mark]



4 (g) Write 60% as a decimal.

[1 mark]

[Total marks: 15]

This is the end of the assessment.

