



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

Paper number: P001424
Section B: Calculator Test



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.

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: Delivery driver

2 (a) Claire is a delivery driver.

She keeps a record of the times taken to make deliveries on Monday.

Delivery 1: 20 minutes

Delivery 2: 45 minutes

Delivery 3: 3 hours and 35 minutes

Delivery 4: 2 hours and 5 minutes

Claire says her deliveries took over $6\frac{1}{2}$ hours on Monday.

Is she correct?

Show how you decide.

[3 marks]

PAST PAPER	
Your answer:	

Please turn over

2 (b)

Claire follows the same route every Tuesday.

Last Tuesday the route took Claire exactly 5 hours.

This Tuesday she completed the route in 20% less time.

How long did it take Claire to complete the route this Tuesday?

[2 marks]

Your answer:	hours

2 (c)

To estimate the area she covers, Claire does the calculation 3×45^2

What answer should she get?

[1 mark]

Your answer:	

2 (d)

Every Wednesday Claire delivers milk for a local farm.

She delivers 400 bottles of milk in total.

The ratio of bottles of semi skimmed to bottles of whole milk is 4 : 1

30% of the bottles for semi skimmed milk are plastic.

5% of the bottles for whole milk are plastic.

The rest of the milk bottles are glass.

Use this information to complete the table.

[5 marks]

	Plastic bottles	Glass bottles	Total
Semi skimmed milk			
Whole milk			
Total			

Please turn over

2 (e) Claire charges the farm a fee of £125 for delivering their milk plus 45p per mile.

Which calculation shows the total charge in pounds for a 62-mile trip?

Tick the correct calculation.

[1 mark]

$125 + 0.45 + 62$	<input type="checkbox"/>
$125 \times 0.45 \times 62$	<input type="checkbox"/>
$125 + 0.45 \times 62$	<input type="checkbox"/>
$125 \times 0.45 + 62$	<input type="checkbox"/>

2 (f) On Thursday morning Claire drove 65 miles in total.

Claire finds this rule:



How many kilometres did she drive?

[1 mark]

Your answer:

km

2 (g) Claire drove 120 kilometres on Thursday afternoon.

What is 120 kilometres in metres?

[1 mark]

Your answer:

m

2 (h) On Friday Claire delivers parcels.

She weighs four of the parcels.

Weight (kilograms)			
3.505	3.05	3.5	3.055

Put these weights in order starting with the smallest.

[1 mark]

[Total marks: 15]

Please turn over

Activity 3: Staycation

3 (a) Alex and his family decide to hire a motorhome for a holiday.

They find these two deals:

<p>Company A</p> <p>£775 per week</p> <p>10% off</p>

<p>Company B</p> <p>£825 per week</p> <p>5% off</p>
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Which company is giving more money off?

Show how you decide.

[2 marks]

Your answer:	

3 (b)

Alex then finds these two last-minute deals:

<p>Company C</p> <p>Motorhome Hire</p> <p>Next Week</p> <p>35% off</p>

<p>Company D</p> <p>Motorhome Hire</p> <p>Next Week</p> <p>$\frac{2}{5}$ off</p>
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Both companies charge the same amount before the offer.

Which company has the better discount?

Show how you decide.

[2 marks]

Your answer:

Please turn over

3 (c) Alex's daughter Amber has been saving pennies for her holiday spending money.

She has saved 14 774p

What is the value of 14 774p in pounds?



[1 mark]

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Your answer:

£

3 (d) Alex drives the motorhome onto a campsite.

He drives in facing south and turns to face north west.

What is the size of the angle Alex has turned through?

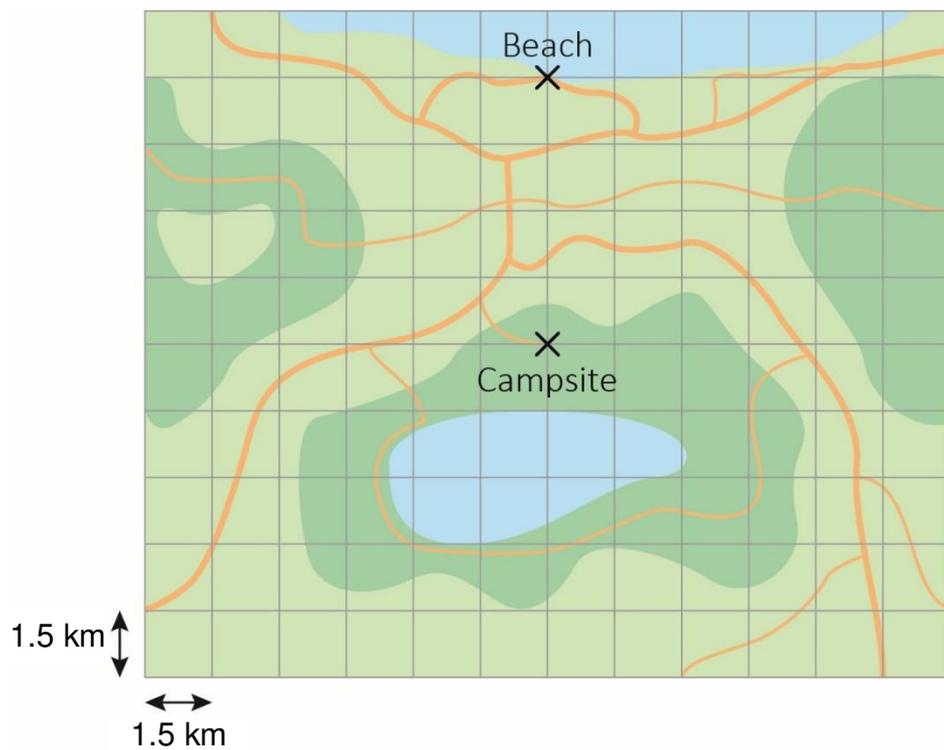
[1 mark]

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Your answer:

°

3 (e) This map shows the position of the campsite and the beach.



How far is it from the campsite to the beach?

[2 marks]

PAST PAPER	
Your answer:	km

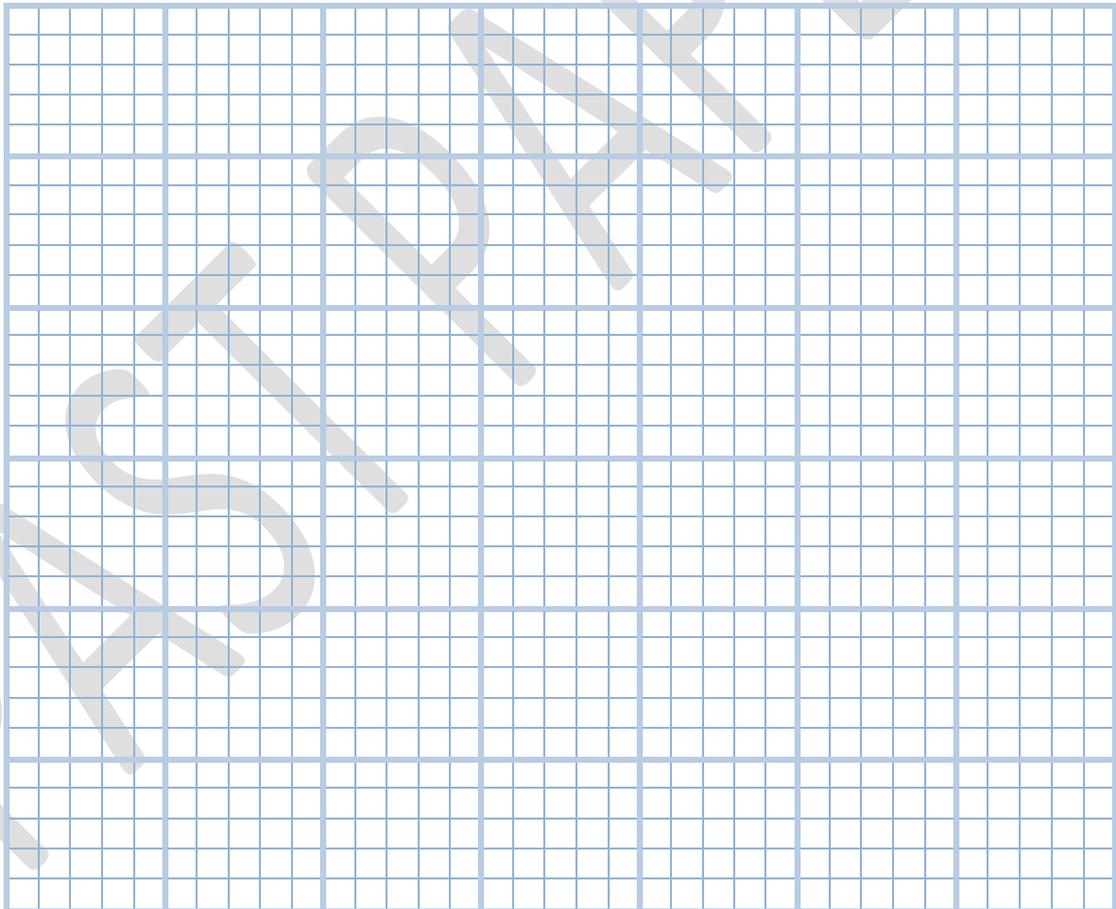
Please turn over

3 (f)

Alex looks at the temperatures forecast for the next 5 days at the beach.

Day	Temperature (°C)
Monday	23
Tuesday	28
Wednesday	24
Thursday	15
Friday	18

Use this information to create a line graph.

[4 marks]**Temperature at the beach**

3 (g) The family sits at an octagonal table for lunch.

Draw an octagon.

[1 mark]

3 (h) The family keep a record of how many miles they drive each day.

The numbers have been rounded to the nearest mile.

85	10	22	45	72	56	51
4	42	45	59	26	38	18
21	5	25	41	32	28	75

Use the data to complete the grouped frequency table below.

[2 marks]

Number of Miles	Number of Days
0 - 19	
20 - 39	
40 - 59	
60 +	
Total	

[Total marks: 15]

Please turn over

Activity 4: Using the internet

4 (a) Rana uses a comparison website to get a quote for her electricity bill.

She finds these six quotes.

£490	£508	£522	£483	£474	£496
------	------	------	------	------	------

Calculate the range of these quotes.

[1 mark]

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Your answer: £

4 (b) Rana uses online banking to apply for a loan.

She takes out a loan for £1725 over 3 years.

The interest rate is 5% simple interest per year.

How much will Rana pay back in total?

[2 marks]

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Your answer: £

4 (c) Rana does some online shopping.

She needs to buy a lunch box and finds this information:

Colour	Red	Green	Yellow	Blue
Number in stock	8	2	6	4

The company selects a lunch box at random from those in stock.

What is the probability that the company selects a green lunch box?

Mark your answer on the probability scale below.

[2 marks]



Please turn over

4 (d) Rana wants to buy a dress online.

The dress comes in these four different lengths.

Dress	Short	Mid	Long	Maxi
Length	76 cm	94 cm	102 cm	147 cm

Rana wants the dress with length closest to 40 inches.

She knows that to convert inches into cm she needs to multiply the inches by 2.54

Which length dress does Rana buy?

Show how you decide.

[2 marks]

PAST PAPER

Your answer:

4 (e) Rana sets up a monthly delivery for some everyday items.

If she arranges for the same five items to be delivered every month, she will receive a 15% discount.

The original total cost of the items is £87

What is the total cost of the items after the discount?

[2 marks]

PAST PAPER

Your answer:

£

Please turn over

- 4 (f) Rana uses her online banking app to check her spending.

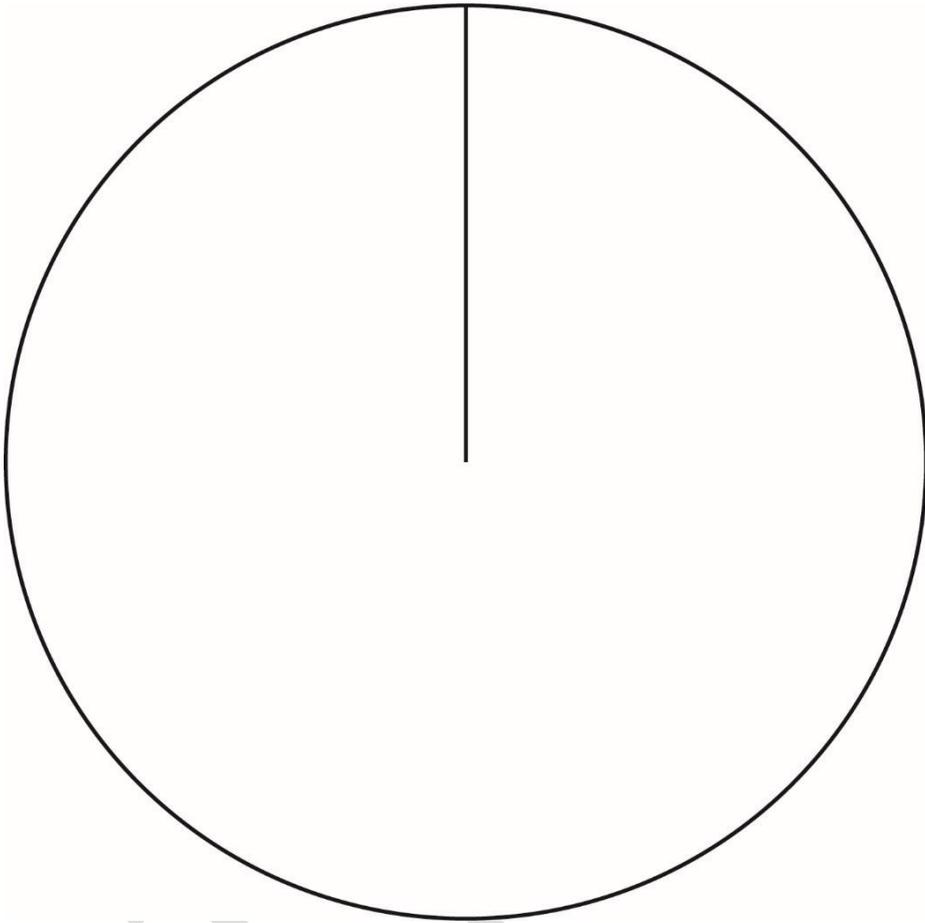
Category	Amount spent to the nearest pound
Rent	800
Utilities	360
Entertainment	100
Shopping	180
Total	1440

Draw a pie chart to represent the amount Rana spent on each category.

[4 marks]



Amount spent on each category



Please turn over

- 4 (g)** Rana checks her bank balance.
It is £46.15

She knows there is a direct debit for £50 due to come out of her account.

What is $£46.15 - £50$?

[1 mark]

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Your answer:

£

- 4 (h)** In May 2020, online sales in the UK increased by 130%

130% is the same as one and three tenths.

Write one and three tenths using numbers.

[1 mark]

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Your answer:

[Total marks: 15]

This is the end of the assessment.

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