## NCFE Entry Level 3 Functional Skills Qualification in Mathematics <br> (603/5061/1)

## Paper number: SAM 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

- Section B contains Activity 2, 3 and 4.
- The maximum mark for this section is $\mathbf{3 0}$.
- The marks available for each question are shown in brackets.


## Resources

You will need:

- a pen, with black or blue ink
- a pencil and eraser
- a 30 cm ruler
- a calculator.

Please complete the details below clearly and in BLOCK CAPITALS.

Learner name
Centre name
$\square$ Centre number $\square$
Do not turn over until the invigilator tells you to do so.

## Activity 2: Shop Deliveries

Sally deals with deliveries.

2 (a) Sally measures a delivery carton.
She writes the measurements on her drawing below.


What is the length of the longest edge?

2 (b) How many right angles are on one face of the delivery carton?
[1 mark]
$\square$

2 (c) Sally weighs a delivery carton on an electronic scale.
She will have to pay a fee if it weighs more than 3.5 kg .


Will Sally have to pay the fee? Give a reason for your answer.


2 (d) The mobile phone shop sells batteries. The batteries come in triangular boxes.

## Each box holds 15 batteries.



Six triangular boxes are packed into one large box.


A customer orders 11 large boxes.

How many batteries does the customer order in total?
Show your working.
[2 marks]
D $\square$
Please turn over

2 (e) Sally has to deliver 42 boxes of the batteries altogether.
Each box weighs 19 kg .
Sally uses multiplication to work out the total weight.

## $42 \times 19=798$

Sally checks her answer by rounding the numbers to the nearest 10. Show how she does this.


[Total marks: 10]

## Activity 3: Sales manager

Asha is the sales manager for six shops.

3 (a) Asha travels from Jack's shop in Wolverhampton to the other shops.


Which direction is the Derby shop from Wolverhampton?

3 (b) Asha writes down her visits to each shop in her diary.


Complete the frequency table to show the number of visits.

| Shop | Frequency |
| :--- | :--- |
| Birmingham |  |
| Derby |  |
| Highley |  |
| Stafford |  |
| Telford |  |

3 (c) Asha has a chart to show the number of mobile phones sold in each of the six shops in one month.


She knows that

- Birmingham sold 90 less phones than Derby
- Stafford sold double the number of phones that Wolverhampton sold.

Complete the chart for Asha. Show your working.

3 (d) This graph shows the number of mobiles phones that Jack's shop sold each month in 2018.


Jack tells Asha, 'In the month with the highest sales, we sold 5 times more phones than in the month with the lowest sales.'

Is Jack correct? Show how you decide.

[Total marks: 10]
Please turn over

## Activity 4: Serving customers

Sid is serving customers in the mobile phone shop.

4 (a) Sid shows a customer a new phone.


The customer pays an equal amount every month for 24 months.
How much will the customer pay each month? Show your working.


4 (b) The customer buys the following items.

| Item | Price |
| :--- | :---: |
| Phone case | $£ 8.95$ |
| Headphones | $£ 45.75$ |
| Car charger | $£ 4.33$ |

The customer pays with £60.
She thinks she will get $£ 1.97$ change.
Is she correct? Show your working.


4 (c) Sid rounds each of the costs to the nearest $£$ to check the total.
Show how he does this.


4 (d) The shop sells waterproof bags for mobile phones.
A customer has a phone that measures $72 \mathrm{~mm} \times 114 \mathrm{~mm}$.
A
to fit phones
$70 \mathrm{~mm} \times 120 \mathrm{~mm}$
B

to fit phones $75 \mathrm{~mm} \times 115 \mathrm{~mm}$
C

to fit phones $80 \mathrm{~mm} \times 110 \mathrm{~mm}$

D

to fit phones
$85 \mathrm{~mm} \times 120 \mathrm{~mm}$

The customer wants the smallest bag that their phone will fit in.
Which is the best bag for the customer to buy?


4 (e) A new phone weighs 10 g less than the lightest phone in the shop.


What does the new phone weigh? Show your working.


4 (f) Sid decides to have a competition. There are six prizes to be won.
He gives a £10 prize to every 15th customer.
Complete the table below.

| Customer <br> Number | 15 | 30 | 45 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Prize <br> Number | $1^{\text {st }}$ prize | $2^{\text {nd }}$ prize | $3^{\text {rd }}$ prize | $4^{\text {th }}$ prize | $5^{\text {th }}$ prize | $6^{\text {th }}$ prize |

