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## NCFE Entry Level 3 Functional Skills Qualification in Mathematics (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 **30**.
- 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 \_\_\_\_\_

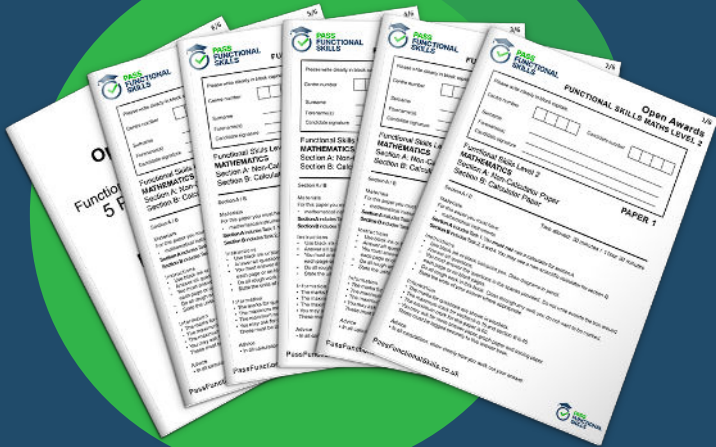
Learner number

Centre number

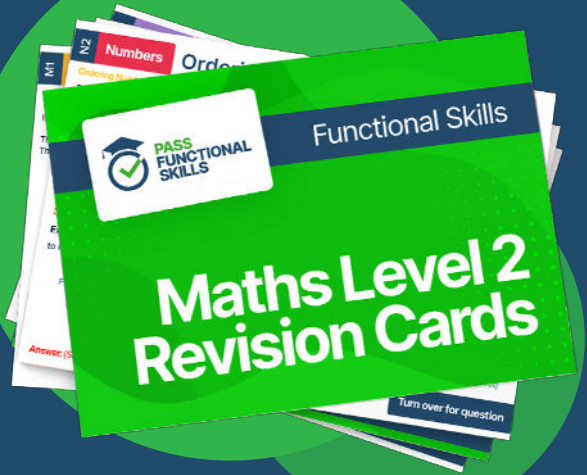
**Do not turn over until the invigilator tells you to do so.**



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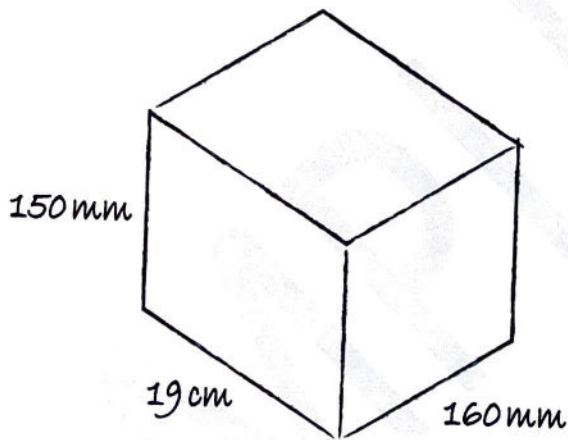
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**Activity 2: Shop Deliveries**

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 marks]

19cm.

2 (b)

How many right angles are on one face of the delivery carton?

[1 mark]



4

Please turn over

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.

[1 mark]

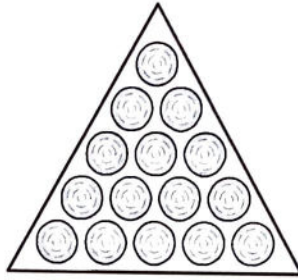


No, this is less than  
3.5kg

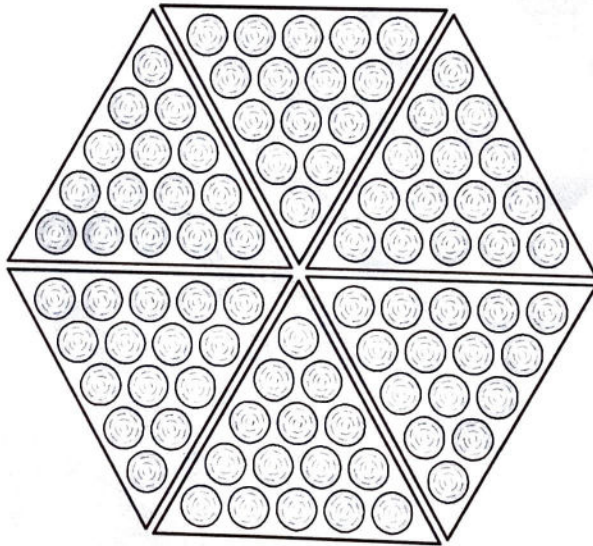
2 (d)

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]



$$15 \times 6 \times 11 = 90 \times 11 = \underline{990}$$

2 (e)

Sally has to deliver 42 boxes of the batteries altogether.

Each box weighs 19kg.

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.

[2 marks]



$$42 \rightarrow 40$$

$$19 \rightarrow 20 .$$

$$40 \times 20 = 800 .$$

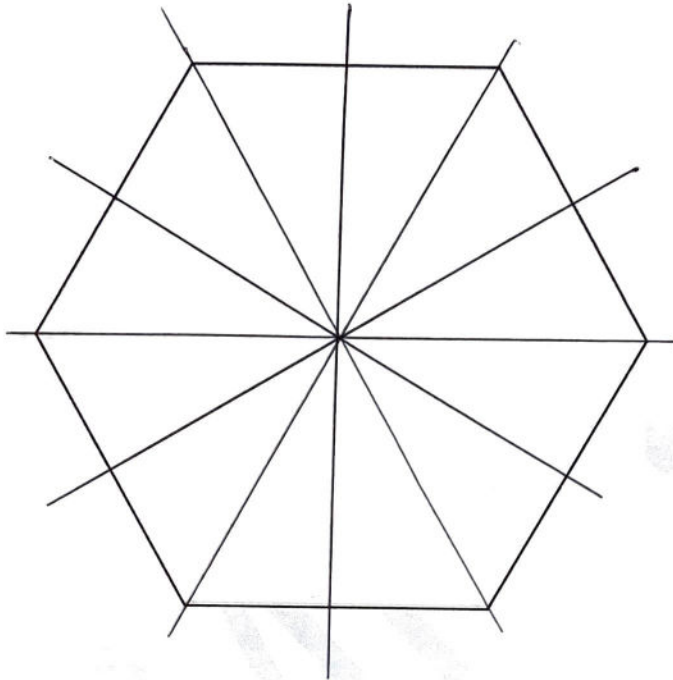
$$798 \rightarrow 800 .$$



2 (f)

Draw all of the lines of symmetry on the large box.

[2 marks]



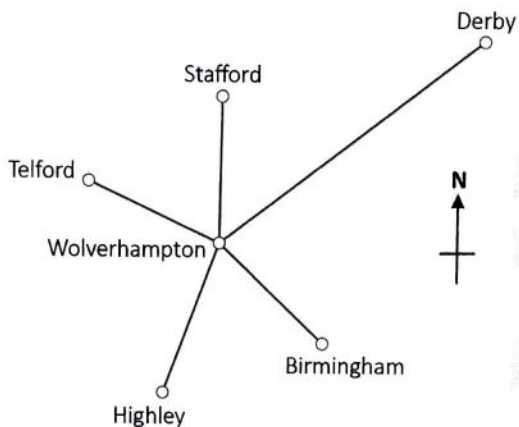
[Total marks: 10]

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**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?

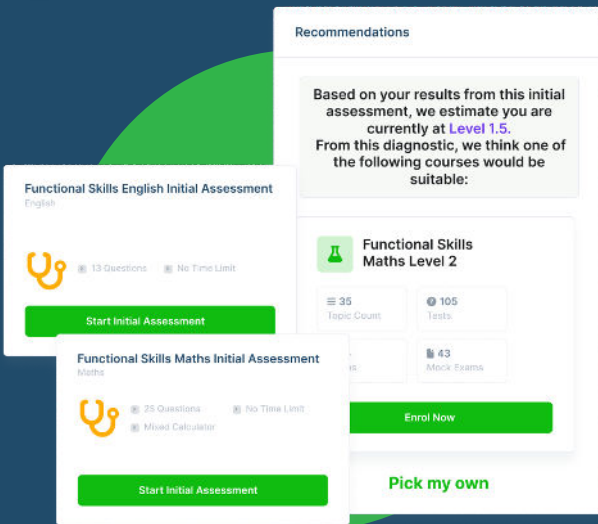
[1 mark]



North - East.

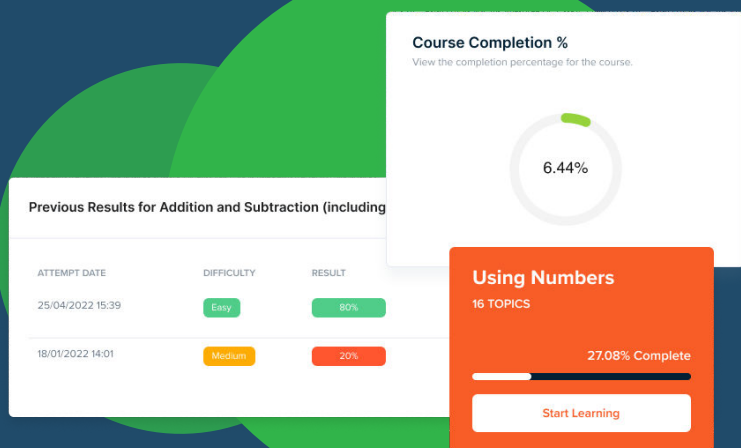
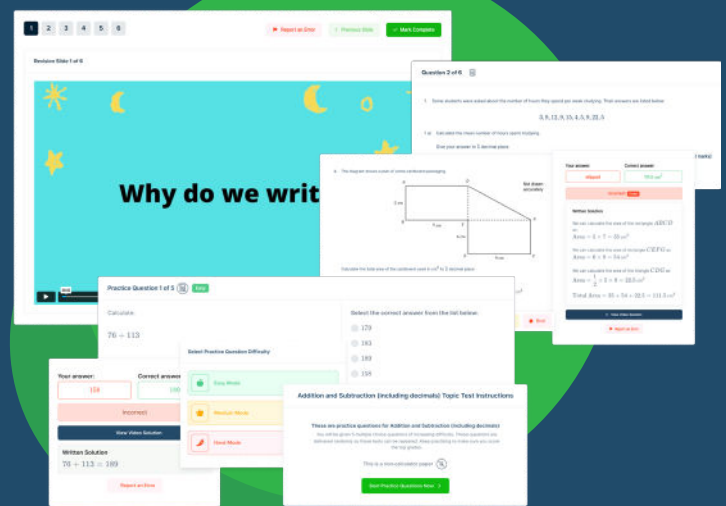


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3 (b)

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Asha writes down her visits to each shop in her diary.

this week   	<div style="text-align: right; font-size: small;">thursday</div> <i>Derby, Highley, Stafford, Telford</i>
monday  <i>Birmingham, Highley, Telford, Stafford</i>	<div style="text-align: right; font-size: small;">friday</div> <i>Derby, Highley, Stafford</i>
tuesday  <i>Derby, Stafford, Highley</i>	<div style="text-align: right; font-size: small;">saturday</div> <i>Birmingham, Highley</i>
wednesday  <i>Birmingham, Highley, Stafford, Derby</i>	<div style="text-align: right; font-size: small;">sunday</div>

Complete the frequency table to show the number of visits.

[1 mark]

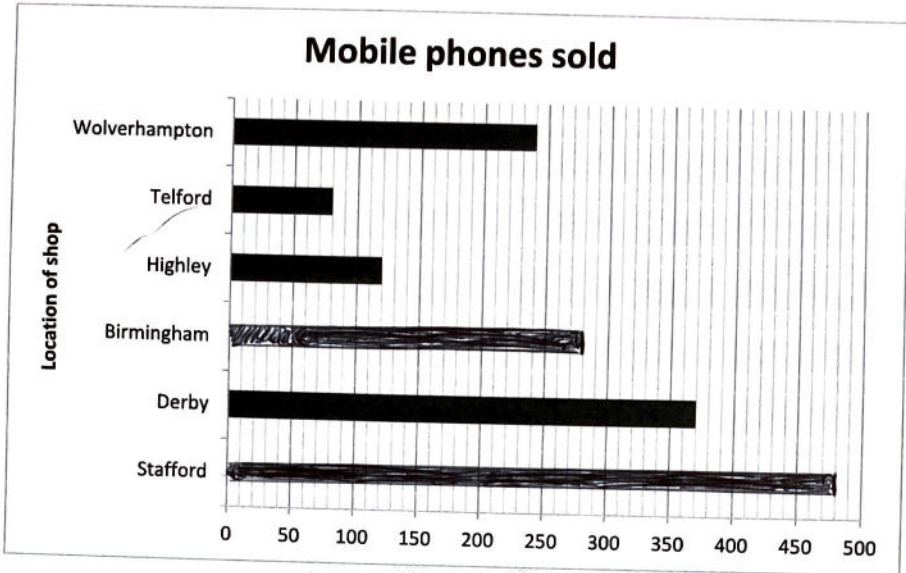


Shop	Frequency
Birmingham	3
Derby	4
Highley	6
Stafford	5
Telford	2

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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.**

[4 marks]

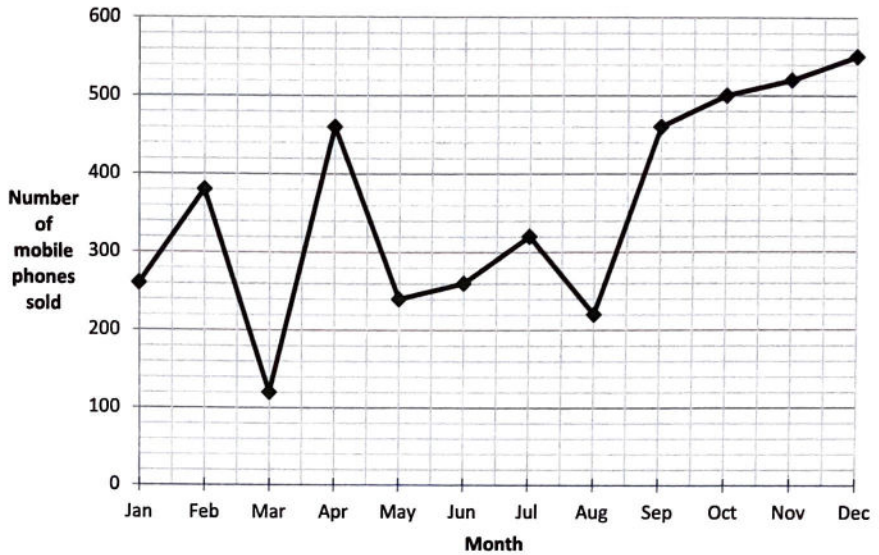


$$B^{\prime}ham = 370 - 90 = 280.$$

$$Stafford: 240 \times 2 = 480.$$

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

### Mobile phones sold 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.**

[4 marks]



Lowest = Mar, 120 sales.

Highest: Dec, 550 sales.

$$\del{550} \quad 120 \times 5 = 600 > 550.$$

No, he is incorrect.

[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.**

[2 marks]



$$\frac{£432}{24} = £18$$

- 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.**

[2 marks]



$$£8.95 + £45.75 + £4.33 = £59.03$$

$$£60 - £59.03 = £0.97$$

- 4 (c) Sid rounds each of the costs to the nearest £ to check the total.

Show how he does this.

[2 marks]



$$£8.95 \rightarrow £9, £45.75 \rightarrow £46, £4.33 \rightarrow £4$$

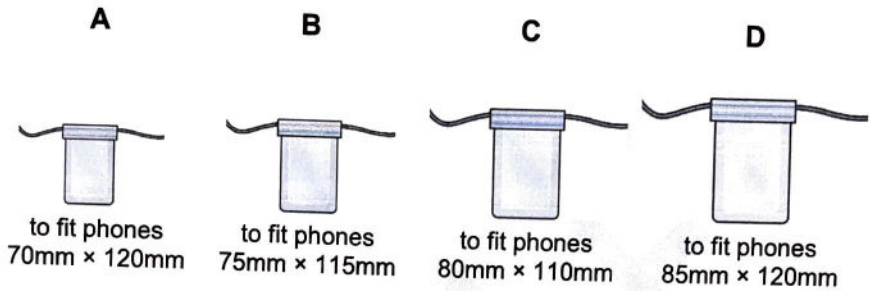
$$£9 + £46 + £4 = £59$$

Please turn over



4 (d) The shop sells waterproof bags for mobile phones.

A customer has a phone that measures  $72\text{mm} \times 114\text{mm}$ .



The customer wants the smallest bag that their phone will fit in.






Which is the best bag for the customer to buy?

[1 mark]



B

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

				
<b>A</b> 140 g	<b>B</b> 0.12 kg	<b>C</b> 197 g	<b>D</b> 0.11 kg	<b>E</b> 205 g

What does the new phone weigh? **Show your working.**

[2 marks]



$$0.11 \text{ kg} = 110 \text{ g}$$

$$110 - 10 = \underline{100 \text{ g}}$$

- 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 Number	15	30	45	60	75	90
Prize Number	1 <sup>st</sup> prize	2 <sup>nd</sup> prize	3 <sup>rd</sup> prize	4 <sup>th</sup> prize	5 <sup>th</sup> prize	6 <sup>th</sup> prize

[1 mark]

[Total marks: 10]

This is the end of the assessment.