

NCFE Entry Level 3 Functional Skills Qualification in Mathematics (603/5061/1)

Paper number:SAMSection 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

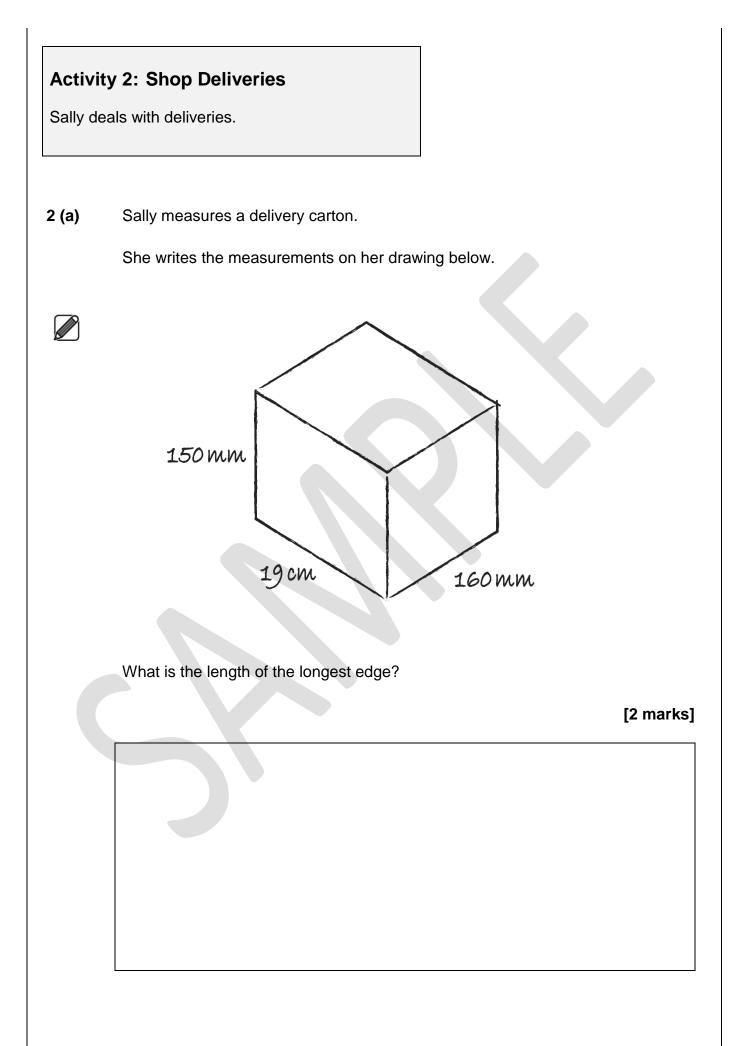
You will need:

- 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 |

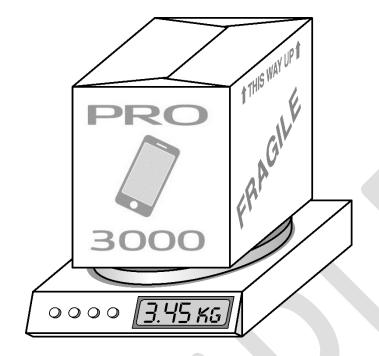
Do not turn over until the invigilator tells you to do so.



| 2 (b) | How many right angles are on one face of the delivery carton? |
|-------|---|
| | [1 mark] |
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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.

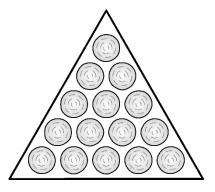


Will Sally have to pay the fee? Give a reason for your answer.

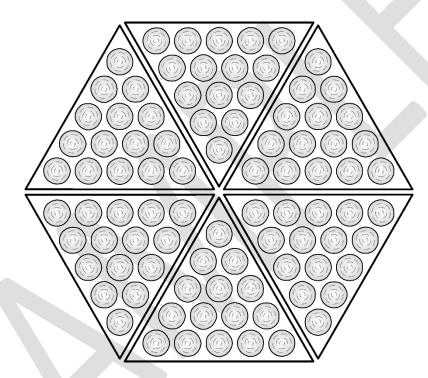
[1 mark]

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.

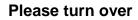


A customer orders 11 large boxes.

How many batteries does the customer order in total?

Show your working.

[2 marks]



2 (e) Sally has to deliver 42 boxes of the batteries altogether.

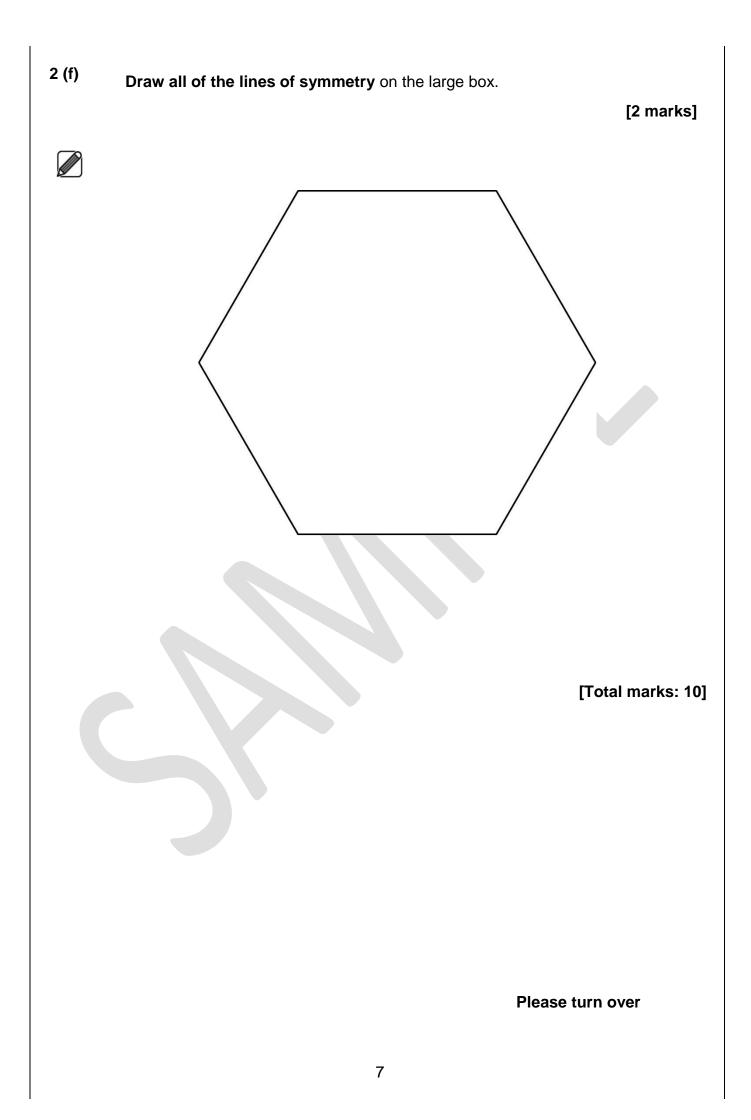
Each box weighs 19kg.

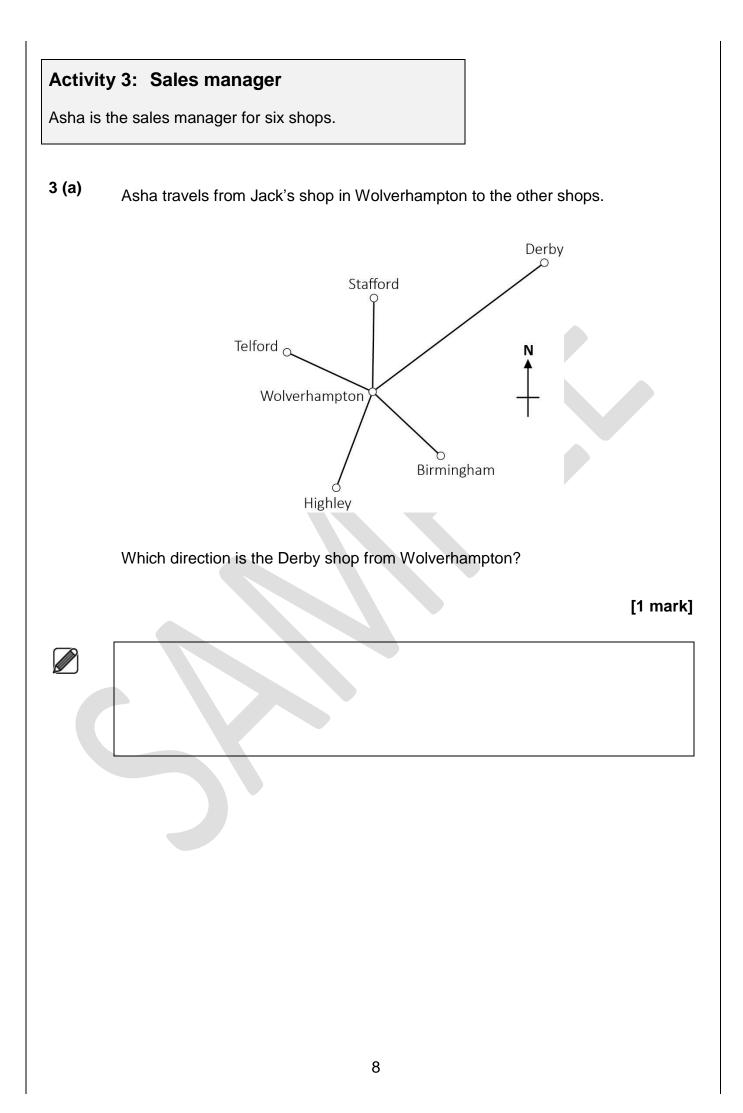
Sally uses multiplication to work out the total weight.

Sally checks her answer by rounding the numbers to the nearest 10.

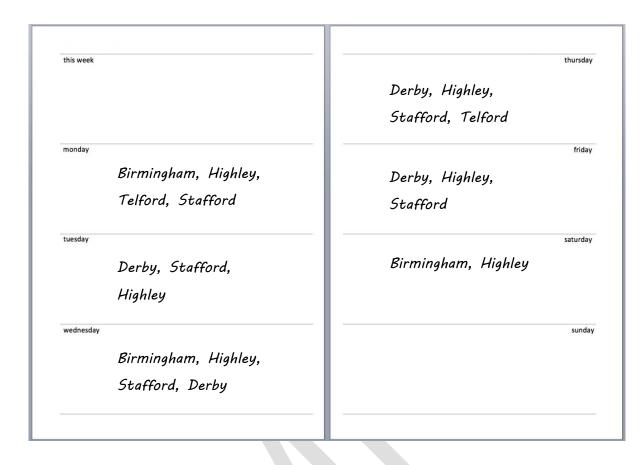
Show how she does this.

[2 marks]





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



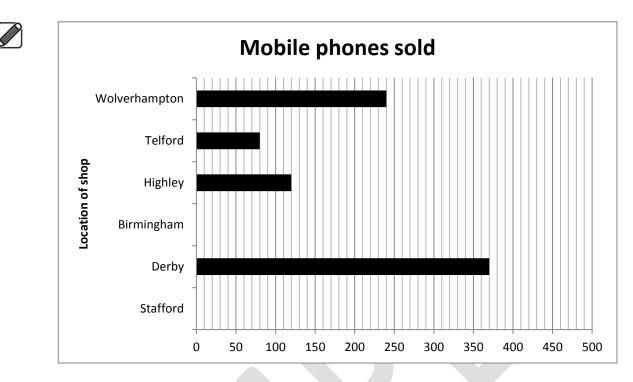
Complete the frequency table to show the number of visits.

[1 mark]

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

Please turn over

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

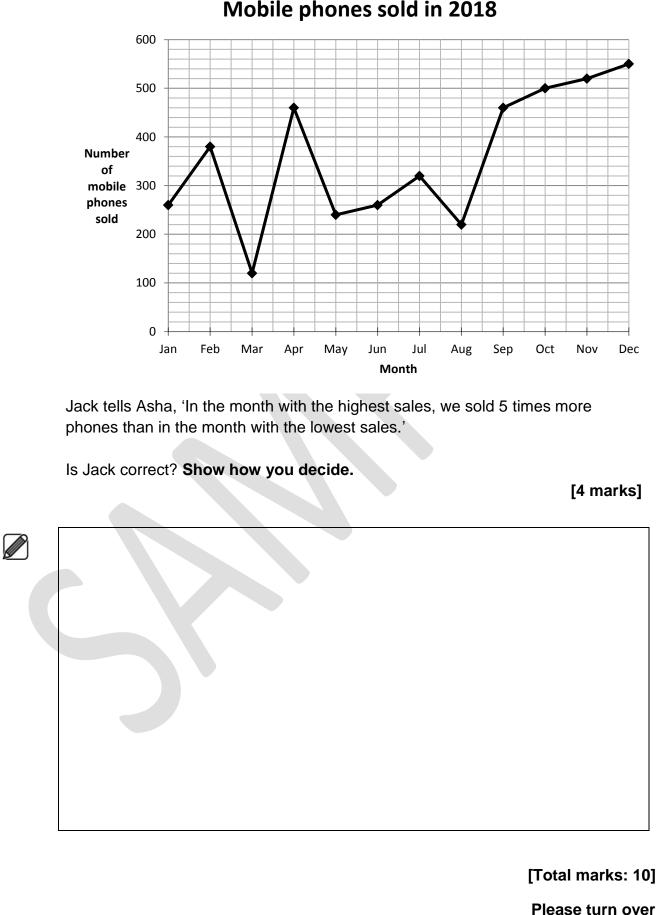
- Birmingham sold 90 less phones than Derby
- Stafford sold double the number of phones that Wolverhampton sold.

Complete the chart for Asha. Show your working.

[4 marks]

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



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]



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]

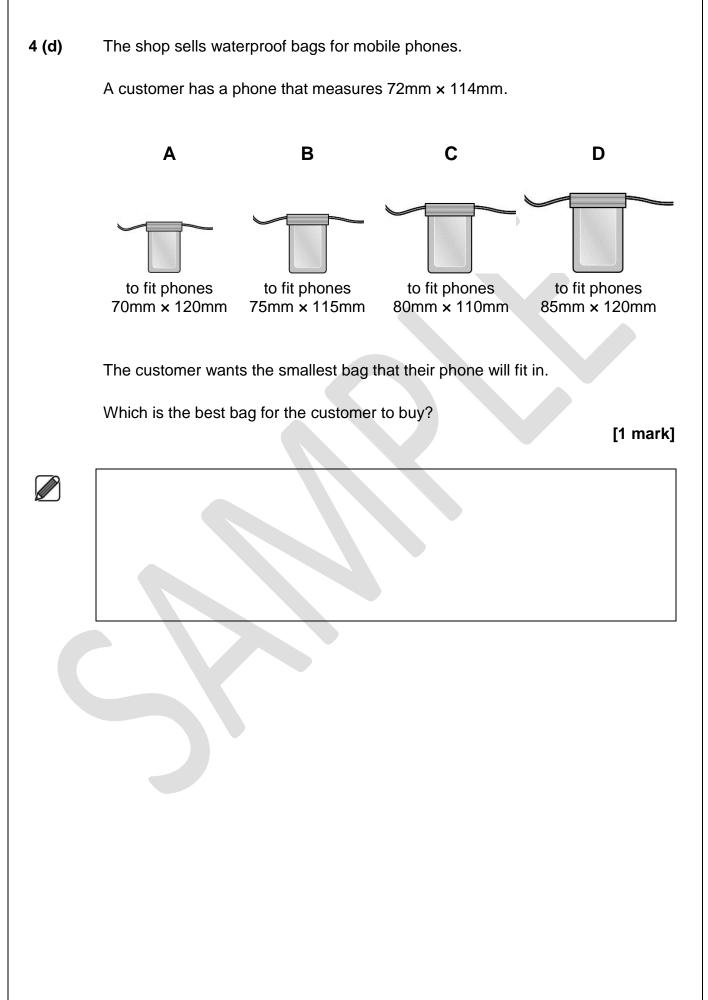


| 4 (c) Sid rounds each of the costs to the nearest £ to check the total |
|--|
|--|

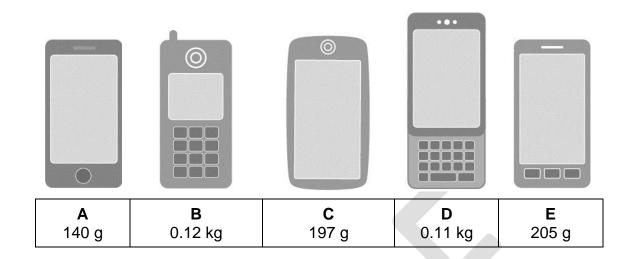
Show how he does this.

[2 marks]

Please turn over



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



What does the new phone weigh? Show your working.

[2 marks]

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.

| Custom Numbe | | 15 | 30 | 45 | | | |
|-----------------|----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Prize Numbe | er | 1 st prize | 2 nd prize | 3 rd prize | 4 th prize | 5 th prize | 6 th prize |

[1 mark]

[Total marks: 10]

This is the end of the assessment.