NCFE

NCFE Level 2 Functional Skills Qualification in Mathematics (603/5060/X)

| Paper number: | P001441 |
| Section A: | Non-calculator Test |

Time allowed: 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 A contains **Activity 1** only.
- The maximum mark for this section is **15**.
- 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.

To be completed by the examiner		Mark
A	Activity 1	/ 15
B	Activity 2	/ 15
	Activity 3	/ 15
	Activity 4	/ 15
TOTAL MARK		/ 60

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 1:   Shopping centre

1 (a)   Jessie is the manager of a shopping centre.

She knows that:

- $\frac{3}{5}$ of the shops sell clothes

- $\frac{1}{8}$ of the shops sell electronic goods
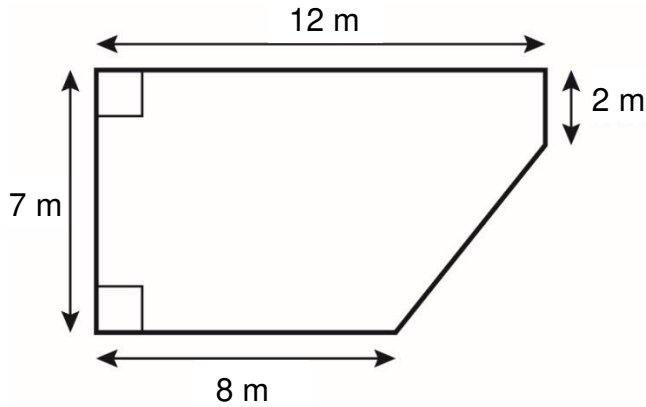
- all of the other shops sell food.

What fraction of the shops sell food?

[2 marks]

Your answer:

Please turn over

1 (b) Jessie will let this unit in the shopping centre:

12 m

2 m

Not drawn accurately

7 m

8 m

She has information about the floor areas of other available units in the shopping centre:

Unit floor area (m²)	51.1	82.3	67.6	49.8	71.2	40.7	59.4	68.9	90.2

Jessie thinks that the unit she will let has a floor area 12% larger than the median floor area of other available units.

Is she correct?

Show how you decide.

[5 marks]

Your answer:

4

1 (c)   Jessie lets a unit with a floor area of 40 m^2 for 12 months.

The unit costs £27.59 per m^2 per month.

What is the total cost of letting this unit for 12 months?

[2 marks]

Your answer: £

1 (d)   Jessie needs to work out how much bonus she will pay each of her workers for the last month.

She uses this formula to work out the bonus payment: $B = \dfrac{0.015T}{N}$

Where: B = bonus payment per worker (£)
            T = total sales (£)
            N = number of workers

Last month the total sales were £38 000

Jessie had 3 workers.

Work out the bonus payment each worker will get.

[3 marks]

Your answer: **£**

1 (e)   Jessie writes a report about the number of shoppers at the shopping centre.

She writes,

"Last week, we were only open for 6 days because of a bank holiday.
The mean number of shoppers was 21 thousand a day and the range was
19.5 thousand shoppers."

Jessie has this information about this week:

Day of the week	Shoppers this week (in thousands)
Monday	15.4
Tuesday	12.5
Wednesday	17.3
Thursday	19.8
Friday	26.2
Saturday	39.6
Sunday	31.6

Compare this week and last week using the means and the ranges.

[3 marks]

Your answer:

[Total marks: 15]

This is the end of Section A.

7

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