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# Functional Skills Model Solutions

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

Paper number: Practice P001267  
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.**

Past paper

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## Activity 1: Mugs of tea

1 (a) Mel has a small transport café.

She goes to a cash and carry to buy things she needs.

She sees this special offer on tea bags:



Calculate  $\frac{1}{2}$  of 24

[1 mark]

$$24 \times \frac{1}{2} = 12$$

Your answer:

12

1 (b) How much will it cost for two boxes of these tea bags?

[1 mark]

$$24 + 12 = 36$$

Your answer:

£ 36

Please turn over

- 1 (c) Mel buys two boxes of tea bags with the special offer.

Calculate the price **per tea bag**. Give your answer in pence.

[3 marks]

$$2 \times 1200 = 2400 \text{ tea bags.}$$

$$£36 = 3600 \text{ p.}$$

$$3600 \div 2400 = 1.5 \text{ p.}$$

Your answer:

1.5

pence

- 1 (d) A mug of tea contains about 20 millilitres (ml) of milk.

How many 20 ml servings are there in a 1 litre bottle of milk?



[3 marks]

$$1 \text{ litre} = 1000 \text{ ml}$$

$$1000 \div 20 = 50 \text{ servings}$$

Your answer:

50

servings

- 1 (e) 5 kilograms (kg) of sugar costs £3.20 and contains 1000 teaspoons of sugar.

How much, in pence, does 1 teaspoon of sugar cost?

[2 marks]

$$\begin{aligned} \text{£}3.20 &= 320\text{p} \\ 320 \div 1000 &= 0.32\text{p} \end{aligned}$$

Your answer:

0.32

pence

- 1 (f) Milk costs 50p per litre.

For each mug of tea, Mel uses:

- 1 tea bag
- 1 teaspoon of sugar
- 20 ml of milk.

What is the total cost for the tea, sugar and milk for **one** mug of tea?  
Give your answer in pence.

[2 marks]

$$\begin{aligned} 1\text{p} + 1.5\text{p} + 0.32\text{p} \\ = 2.82\text{p} \end{aligned}$$

Your answer:

2.82

pence

Please turn over

1 (g) Including staff and overheads, the total cost of making one mug of tea is 80p

Mel charges 55% more for a mug of tea than it costs to make.

How much does Mel charge for a mug of tea in the café?

Give your answer in £

[3 marks]

$$80p = \text{£}0.80$$

$$\text{£}0.80 \times 1.55 = \text{£}1.24$$

Your answer:

£ 1.24

[Total marks: 15]

This is the end of Section A.

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Past Paper



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Past paper