



**Sample Paper: P000310**

NCFE Functional Skills Qualification in Mathematics at Level 1 (501/2325/7)

Time Allowed      2 HOURS

You **need** the following to complete this assessment:

- ruler
- calculator

Read each document and activity carefully and attempt to answer **all** activities.

Write your answers in the spaces provided and ensure that your writing is legible.

If extra pages are used, please make sure your name is on them and they're securely fastened to this booklet.

At the end of the assessment hand all documents over to the invigilator as instructed.

**DO NOT TURN OVER UNTIL YOU ARE INSTRUCTED TO DO SO BY THE INVIGILATOR.**

For Examiner use only:

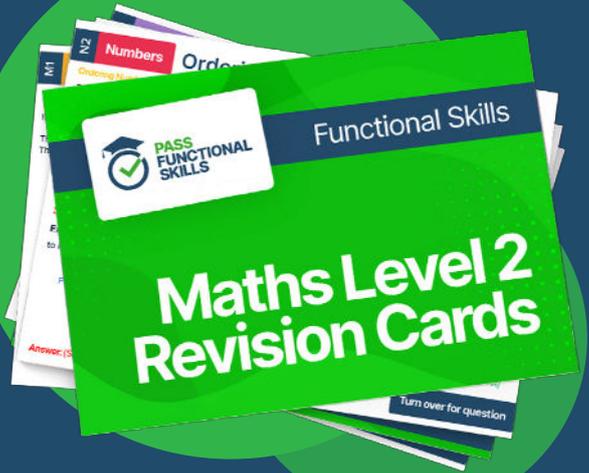
Activity number	1	2	3	Total
Total Marks awarded				
<b>Total Marks available</b>	<b>14</b>	<b>12</b>	<b>14</b>	<b>40</b>



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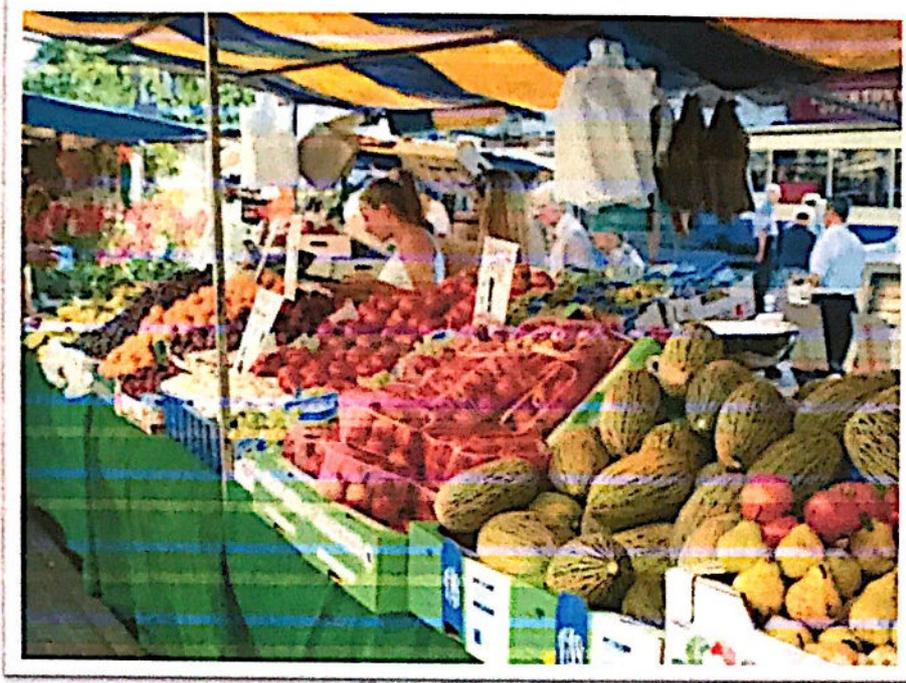


Functional Skills Maths  
Level 2 Pocket Revision Guide

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## Fruit Stall



This assessment is about a fruit stall.

**Complete activities 1, 2 and 3 based on the documents provided for each activity.**

## Activity 1

### Task A

1. Carmel and Eustachy work on a market stall. The stall sells fruit.



Pomegranates cost 80p each or £1.50 for 2.

How much is saved by buying 2 together?

**Marks available: 1**

Space for your workings:

$$\begin{aligned} 80p &= \pounds 0.80 \\ 2 \times \pounds 0.80 &= \pounds 1.60 \\ \pounds 1.60 - \pounds 1.50 &= \pounds 0.10 = 10p \end{aligned}$$

Your answer:

10p

2. Kaki fruit cost 35p each. There is a special offer of 7 for £2.

Compare the costs of buying 6 kaki fruit with 7 kaki fruit.

**Marks available: 2**

You must show your working:

$$35p = \pounds 0.35$$

$$\pounds 0.35 \times 6 = \pounds 2.10 \text{ for } 6$$

This is 10p more than **£2 for 7**

Your answer:

**7** costs 10p ~~less~~ than 6

3. Navel oranges cost £1 for 6. The price label does not show the price for 1 orange.

Carmel wants the price per orange to be 3p more than when buying 6.

What is the lowest price she should charge for 1 navel orange?

Give your answer **in pence**.

**Marks available: 2**

You must show your working:

$$\pounds 1 \div 6 = \pounds 0.1666\dots = \pounds 0.17 \text{ rounded up}$$

$$\pounds 0.17 + 3p = 17p + 3p = 20p$$

Your answer:

20p

**Task B**

1. Carmel buys cases of pears and sells them in bags.



This week she bought 20 cases at £9 each.

If she sells a full case she makes a profit of one third of the cost.

If Carmel sells all the pears how much profit would she expect to make?  
Give your answer in pounds.

**Marks available: 2**

You must show your working:

$$20 \times \pounds 9 = \pounds 180 \text{ total spend.}$$
$$\text{Profit} = \pounds 180 \times \frac{1}{3} = \pounds 60$$

Your answer:

$\pounds 60$

2. Carmel estimates that pears weigh 150 grams (g) each.  
A bag of pears weighs 1.2 kilograms (kg).

How many pears would be in a bag?

**Marks available: 3**

You must show your working:

$$1.2 \text{ kg} = 1200 \text{ g}$$
$$\text{No of pears} = \frac{1200}{150} = 8 \text{ pears}$$

Your answer:

8

Show how you can check your answer:

$$\text{Check as } 8 \times 150 = 1200$$

**Task C**

1. Eustachy wants to know about bags of apples.

He enters the number of apples in 10 bags into a table.

Bag 1	Bag 2	Bag 3	Bag 4	Bag 5	Bag 6	Bag 7	Bag 8	Bag 9	Bag 10
8	11	9	9	12	10	8	9	10	7

Number of apples per bag

What is the average (mean) number of apples in a bag?

Marks available: 3

You must show your working:

There are 10 bags.

$$\text{Mean} = \frac{8+11+9+9+12+10+8+9+10+7}{10}$$

$$= \frac{93}{10}$$

$$= 9.3$$

Your answer:

9.3

Show how you can check your answer:

$$9.3 \times 10 = 8+11+9+9+12+10+8+9+10+7$$

2. What is the range of numbers of apples in a bag?

Marks available: 1

Space for your workings:

$$\text{Range} = 12 - 7 = 5$$

Your answer:

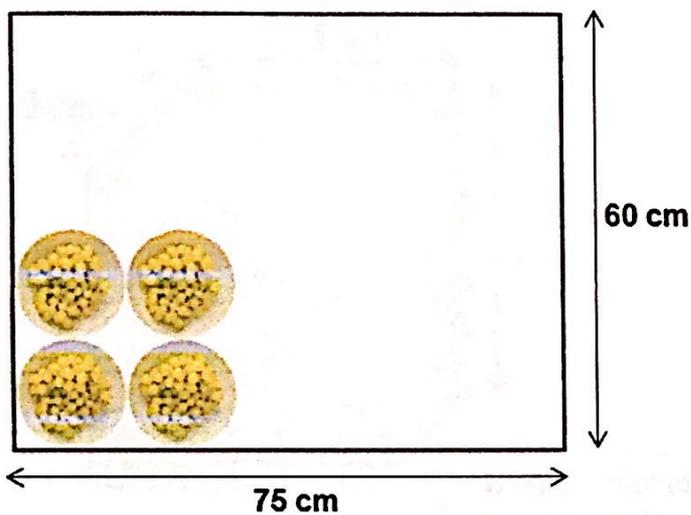
5

Total marks available: 14

SAMPLE

**Activity 2****Task A**

Carmel arranges bowls of grapes on a table in rows, as shown below.  
The plan does not show all of the bowls. The table is 75 centimetres (cm) by 60 cm.  
The round bowls are 15 cm across.



Plan (not to scale)



How many bowls will fit onto the table?

**Marks available: 4**

You must show your working:

$$\begin{aligned} 75 \div 15 &= 5 \\ 60 \div 15 &= 4 \\ 5 \times 4 &= 20 \end{aligned}$$

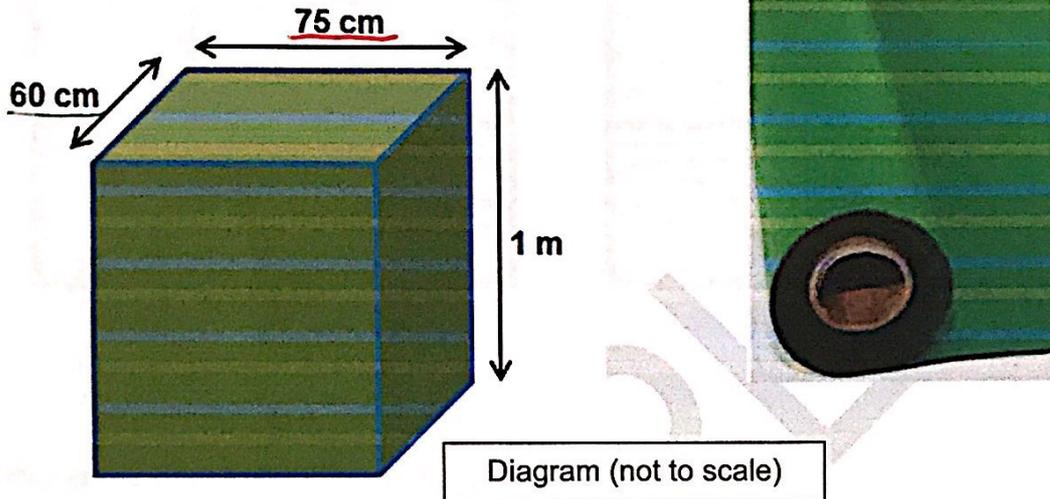
Your answer:

20

**Task B**

Carmel plans to wrap cloth around all 4 sides of the table and will add a single piece to cover the top of the table.

The cloth is only available with a width of 1 metre (m). It can be bought in any length and costs £3 per metre.



What will be the cheapest cost of the cloth?

**Marks available: 4**

You must show your working:

$$75\text{cm} = 0.75\text{m} \quad 60\text{cm} = 0.6\text{m}$$

$$\text{Around the sides} = 0.75 + 0.6 + 0.75 + 0.6 = 2.7\text{m}$$

$$\text{Need an extra } 0.6\text{m} \text{ for the top.}$$

$$\text{Total} = 3.3\text{m}$$

$$3.3 \times 3 = \text{£}9.90$$

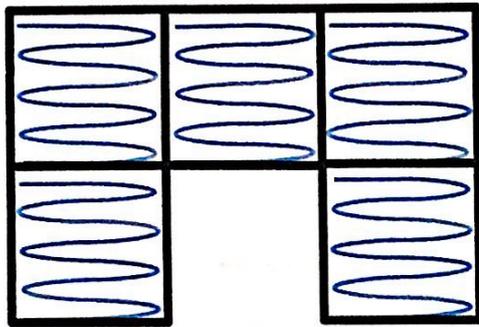
Your answer:

$$\text{£}9.90$$

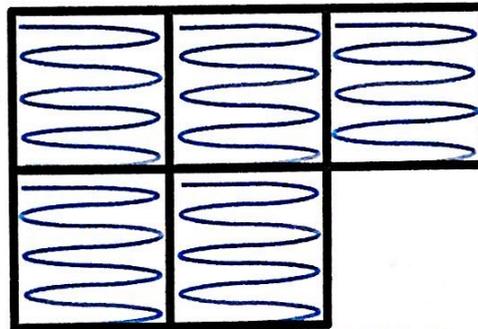
**Task C**

1. Eustachy is planning a display. He has 5 square tables.

Each table is 1 metre (m) long. Eustachy made 2 plans.



**Plan A**



**Plan B**

What is the total area of the table tops in Plan A?

**Marks available: 1**

Space for your workings:

Area of 1 table =  $1 \times 1 = 1\text{m}^2$   
There are 5 tables.  
Hence,  $5\text{m}^2$

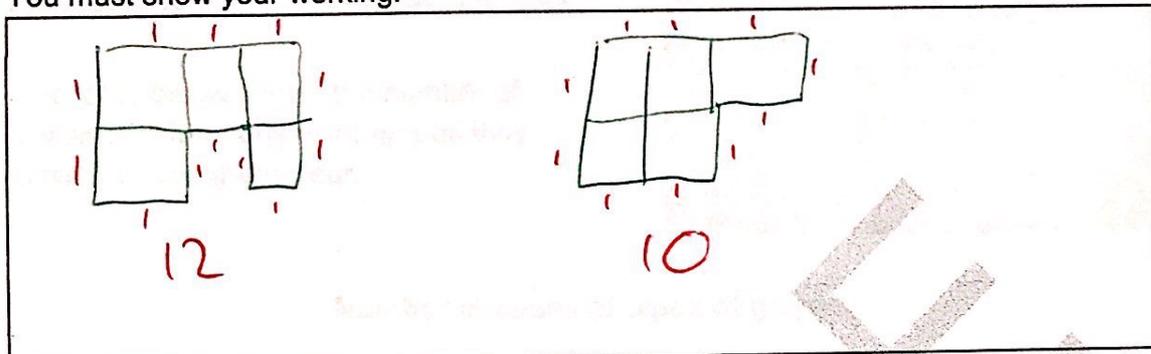
Your answer:

$5\text{m}^2$

2. Compare the perimeters of the shapes in Plan A and Plan B.

Marks available: 3

You must show your working:



Your answer:

Plan A has 12m  
Plan B has 10m

Total marks available: 12

**Activity 3****Task A**

1. Carmel is looking at sales of grapes.

The table below shows the number of cases of different types of grapes they have sold so far this year.



**Number of cases of types of grapes**

	Colour		
	Green	Red	Black
Seedless	22	8	<u>18</u>
Seeded	3	7	<u>6</u>
<b>Totals</b>	<b>25</b>	<b>15</b>	<b>24</b>

What is the ratio of the number of cases of black seedless grapes to the number of cases of black seeded grapes? Give your answer in its simplest form.

**Marks available: 2**

You must show your working:

$$18:6 = 3:1$$

Your answer:

$$3:1$$

2. What percentage of green grapes are seeded?

Marks available: 2

You must show your working:

$$\begin{aligned} \text{Seeded} &= 3 \\ \text{Total} &= 25 \\ \frac{3}{25} &= \frac{12}{100} = 12\% \end{aligned}$$

Your answer:

12%

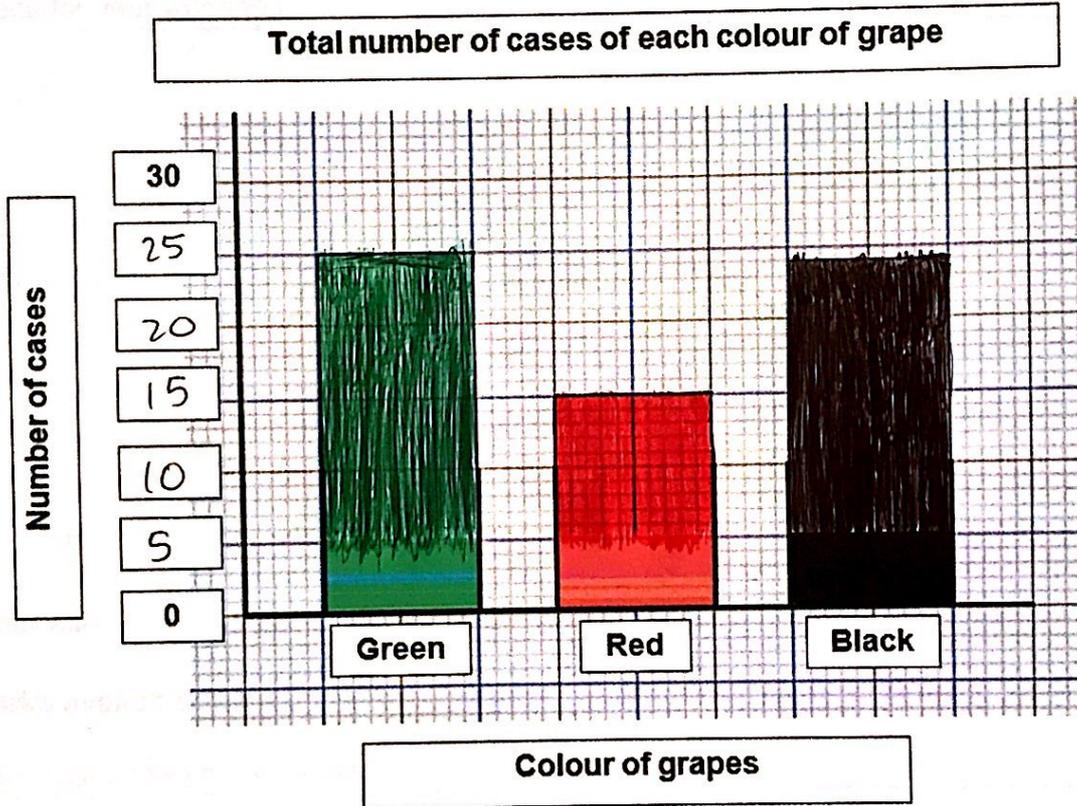
SAMPLE

3. Carmel started to create a bar chart of the total number of cases of each colour of grape.

Complete the bar chart.

Marks available: 3

Your answer:



**Task B**

1. The cost of bananas is 80p per kilogram (kg).

The weight of a bunch of bananas is 0.75 kg.

How much would it cost? Give your answer in pence.

**Marks available: 1**



Space for your workings:

$$80 \times 0.75 = 60p$$

Your answer:

60p

2. The price per kilogram (kg) is going to rise by 15%.

What will be the new price of bananas per kg?

**Marks available: 2**

You must show your working:

$$80 \times 1.15 = 92p$$

Your answer:

92p

**Task C**

1. Eustachy checks 80 figs in a box.

4 of the figs are damaged and have to be thrown away.

What is the likelihood of finding a damaged fig?  
Give your answer in its simplest form.



**Marks available: 2**

You must show your working:

$$\frac{4}{80} = \frac{1}{20}$$

Your answer:

$$\frac{1}{20}$$

SAMPLE

2. Eustachy sold the 76 good figs. Figs sell for 18p each.

How much money did he receive? Give your answer **in pounds**.

**Marks available: 2**

You must show your working:

$$76 \times 18 = 1368 \text{ p.}$$
$$1368 \text{ p} = \text{£}13.68$$

Your answer:

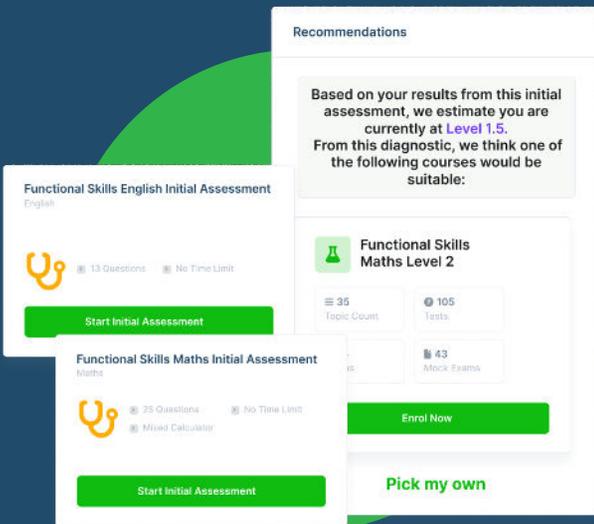
£13.68

**Total marks available: 14**

**End of assessment**

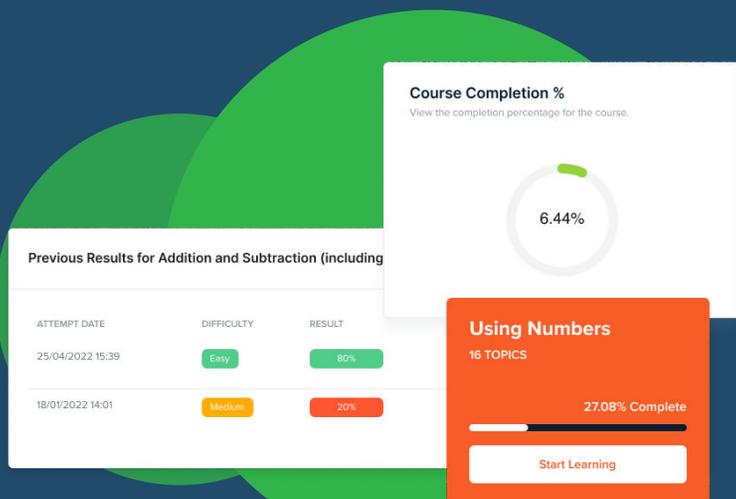
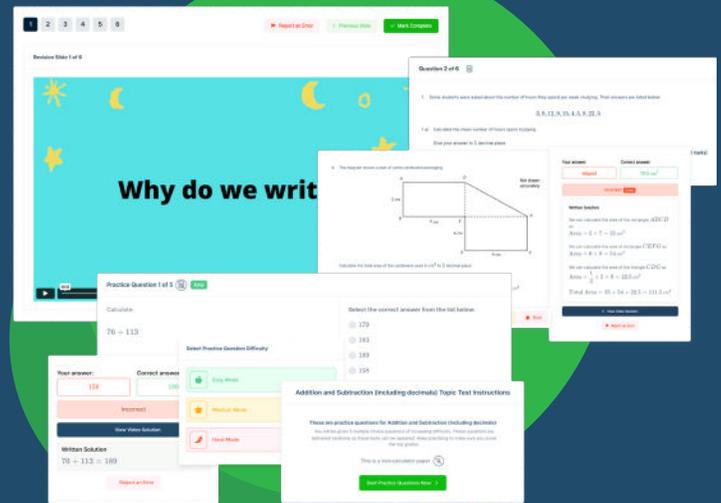


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