

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

Paper number: Practice P001268
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.

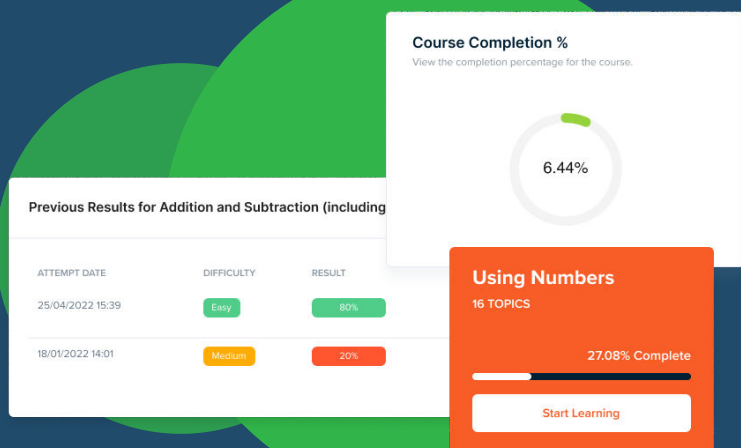
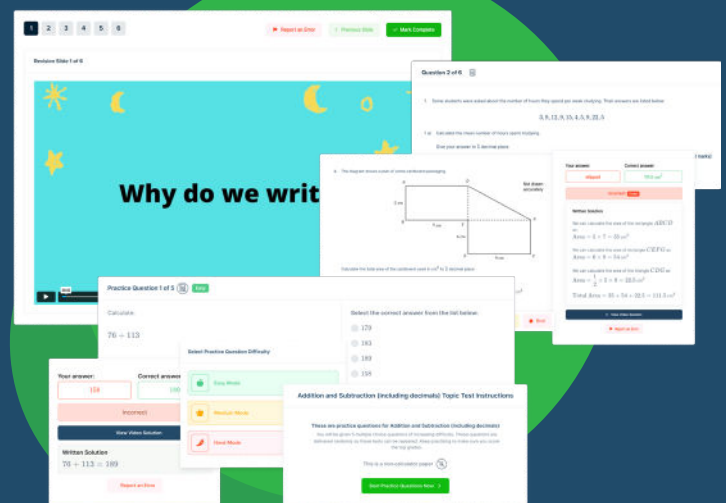


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Activity 1: Wildflowers

1 (a) Tess does voluntary work for a local nature group.

The group wants to estimate the number of wildflower plants in a field.

To calculate the area of the field, Tess has to work out 40^2

Calculate the value of 40^2

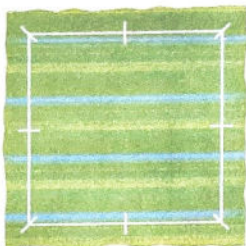
[2 marks]

$$40^2 = 1600$$

Your answer:

1600

- 1 (b) To make the estimate, Tess uses this 0.7 m by 0.7 m square frame.



Calculate the area of the frame in m^2

[2 marks]

$$0.7 \times 0.7 = 0.49 m^2$$

Your answer:

0.49 m^2

- 1 (c) Round your answer to 1 (b) and use this value to estimate the number of frames that will fit into the field with no overlaps.

[3 marks]

Round to 0.5

$$1600 \div 0.5 = 3200$$

Your answer:

3200

1 (d) Tess puts the frame on the ground. She counts the number of plants in the frame.

Tess repeats this 12 times in different places on the field.

Here are her results:

4	1	3	2	4	0
0	10	0	0	2	4

Tess uses her results to calculate the mean number of plants per frame.

She then uses this rule to estimate the total number of plants in the field.

Mean number of plants per frame	×	The number of frames that will fit into the field	=	Estimate of total number of plants in the field
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Use Tess's data and the rule to estimate the total number of plants in the field.

[5 marks]

$$\begin{aligned} \text{Mean} &= \frac{4+1+3+2+4+0+0+10+0+0+2+4}{12} \\ &= 2.5 \\ 2.5 \times 3200 &= 8000 \end{aligned}$$

Your answer:

8000

Please turn over

1 (e) In the 1930s there were 12500 square miles of wildflower meadow in the UK.

By 2017, only 5% of this remained.

What is 5% as a decimal?

[1 mark]

Your answer:

0.05

1 (f) How many square miles of wildflower meadow remained in the UK in 2017?

[2 marks]

$$12500 \times 0.05 = 625 \text{ sq mi}$$

Your answer:

625

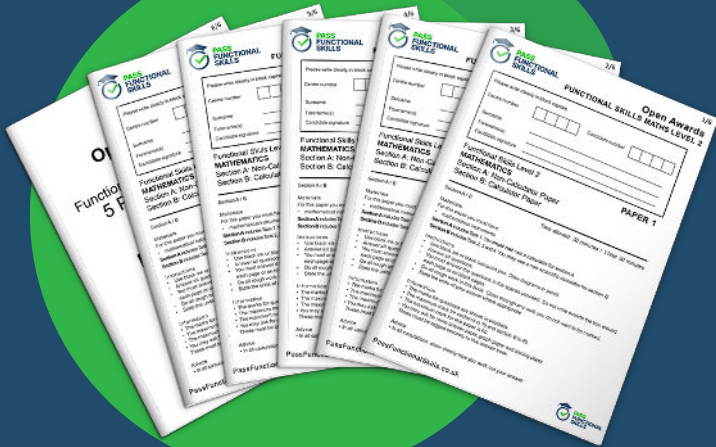
square miles

[Total marks: 15]

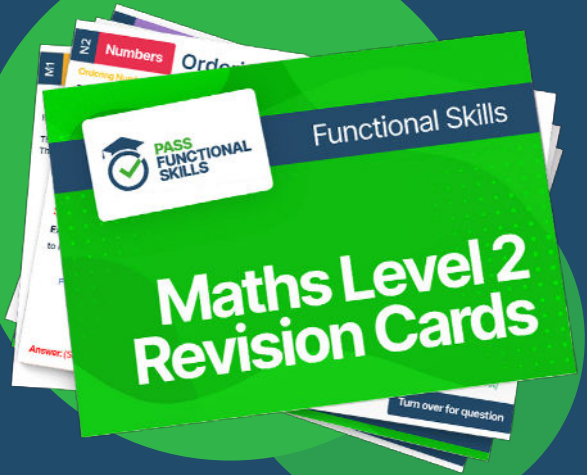
This is the end of Section A.



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