



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

Paper number: Practice P001269  
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 is 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

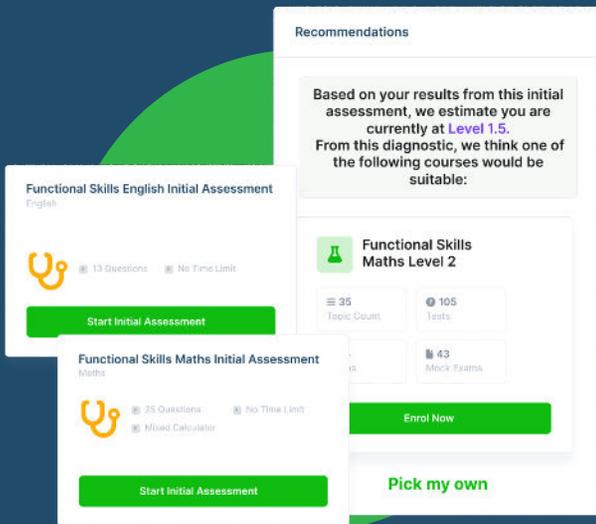
Centre number

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

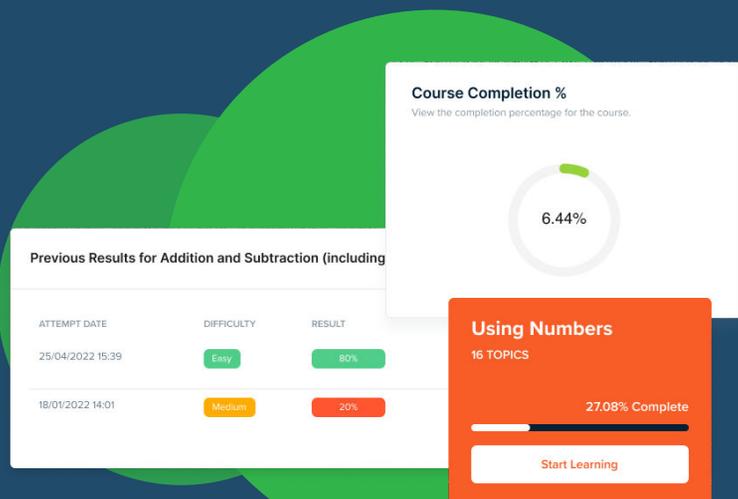
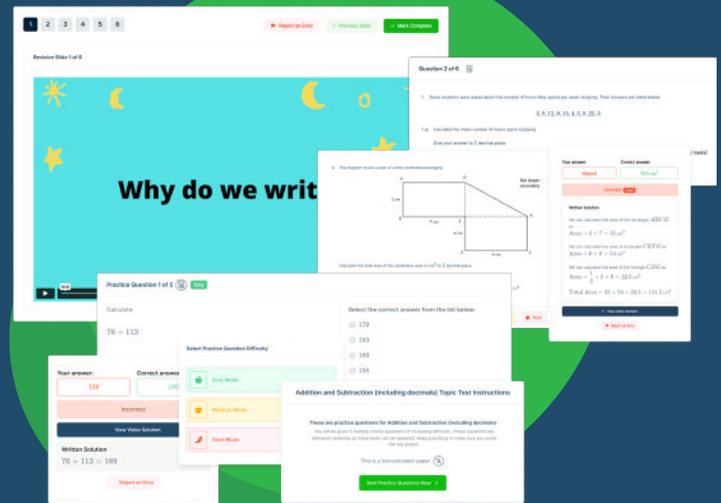


# FUNCTIONAL SKILLS ONLINE COURSES

- ✓ Your answers are analysed to determine your Current Level
- ✓ Suggested courses for you to enrol on based on your calculated level
- ✓ Always know the level you are currently working at
- ✓ Determine when you are ready to sit your exam



- ✓ Explainer videos on every topic
- ✓ Quick-fire style multiple choice questions
- ✓ Test your knowledge with exam-style questions
- ✓ Written solutions for all questions



- ✓ See your progress through as you progress through each topic area
- ✓ Get your average scores for practice questions, topic tests and mock exams
- ✓ View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Or visit  
[passfunctionalskills.co.uk](https://passfunctionalskills.co.uk)

Past paper

**This page is intentionally left blank.**

**Activity 1: Office move**

1 (a) Emma has been asked to organise an office move.

The health & safety guidelines recommend a minimum area of 9.75 m<sup>2</sup> for each employee.

Calculate the area required for 27 employees.

[2 marks]

$$27 \times 9.75 \text{ m}^2 =$$

Your answer:

263.25,

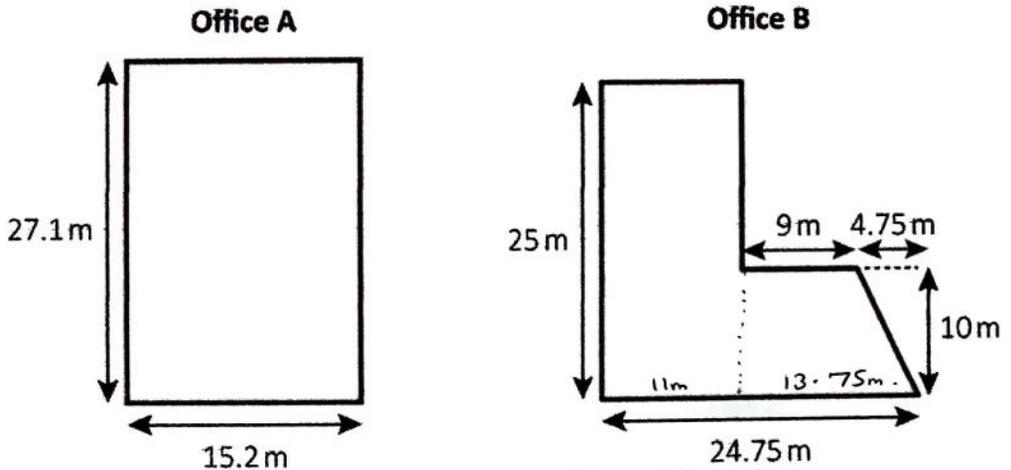
m<sup>2</sup>

Please turn over

1 (b) Emma is asked to find an office with a floor area of approximately 400 m<sup>2</sup>

She compares two office spaces.

Not drawn  
accurately



The area of **Office A** is 411.92 m<sup>2</sup>

Which office has an area closest to 400 m<sup>2</sup>?

Show your working.

[4 marks]

$$\text{Office B: } 24.75 - (9 + 4.75) = 11 \text{ m.}$$

$$25 \times 11 = 275 \text{ m}^2.$$

$$\frac{1}{2} (9 + 13.75) \times 10 = 113.75 \text{ m}^2.$$

$$113.75 + 275 = 388.75 \text{ m}^2,$$

which is 11.25 m<sup>2</sup> away.

This is closer to 400 m<sup>2</sup>.

Your answer:

Office B.

1 (c) The employees looked at the office plans and held a vote on which office they prefer.

- A third voted for Office A.
- Two-fifths said they did not mind which office was chosen.
- The rest voted for Office B.

What fraction of employees voted for Office B?

[2 marks]

$$\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$$

$$\Rightarrow \frac{4}{15}.$$

Your answer:

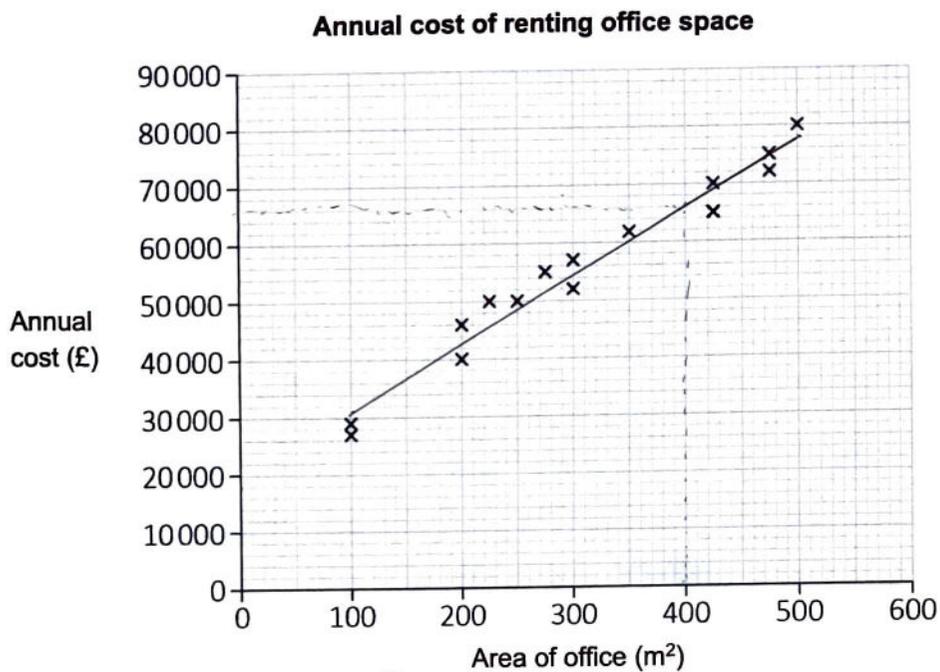
$$\frac{4}{15}.$$

Please turn over

1(d)

Emma has been asked to estimate the cost of renting an office.

The graph shows how the **annual cost** varies with the total area of the office space.



The annual cost of renting office space will increase by 5.75% next year.

Estimate the cost of renting a 400 m<sup>2</sup> office next year.

[4 marks]

Approximately £60000 this year.

$$60000 \times 1.0575 = \pounds 69795$$

Your answer:

£ 69795

Please turn over

- 1 (e) Emma gets this quote for office furniture:

<i>Office Genius Ltd</i>	
To supply and install furniture:	
27 desks @ £260	£7020
27 chairs @ £110	£2970
10 filing cabinets @ £200	£2000
1 meeting table	£1635
12 meeting chairs @ £250	£3000
Delivery & Installation	£1875
<b>Total</b>	<b>£18500</b>

What fraction of the quote is for Delivery & Installation?  
Show your answer in its simplest form.

[2 marks]

$$\frac{1875}{18500} \div \frac{125}{125} = \frac{15}{148}$$

Your answer:

$$\frac{15}{148}$$

- 1 (f) Another option is to rent a fully furnished office.

Prices vary according to the length of the rental period.

Rental period	Price per calendar month
1 year	£10 000
5 years	£8500

Calculate the percentage discount per month, if the office is rented for 5 years rather than for 1 year.

[1 mark]

$$\frac{10000 - 8500}{10000} = 0.15 = 15\%$$

Your answer:

15 %

[Total marks: 15]

This is the end of Section A.

**This page is intentionally left blank.**

Past paper



**PASS**  
**FUNCTIONAL**  
**SKILLS**



Functional Skills Maths  
Level 2 Practice Papers



Functional Skills Maths  
Level 2 Revision Cards



Functional Skills English Level 2  
Practice Papers & Revision Cards



Functional Skills Maths  
Level 2 Pocket Revision Guide

Or visit

[passfunctionalskills.co.uk](http://passfunctionalskills.co.uk)