

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.

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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^2 for each employee.

Calculate the area required for 27 employees.

[2 marks]

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Your answer:

m^2

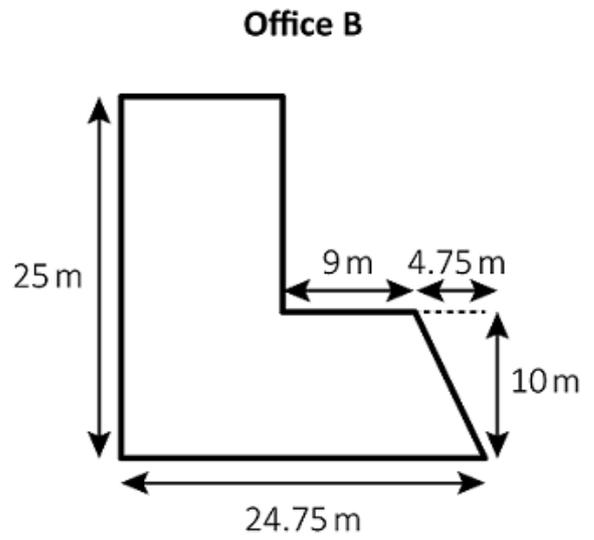
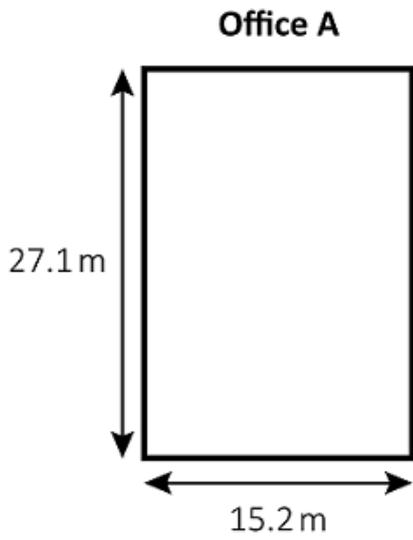
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1 (b)

Emma is asked to find an office with a floor area of approximately 400 m^2

She compares two office spaces.

Not drawn accurately



The area of **Office A** is 411.92 m^2

Which office has an area closest to 400 m^2 ?
Show your working.

[4 marks]

Your answer:

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?

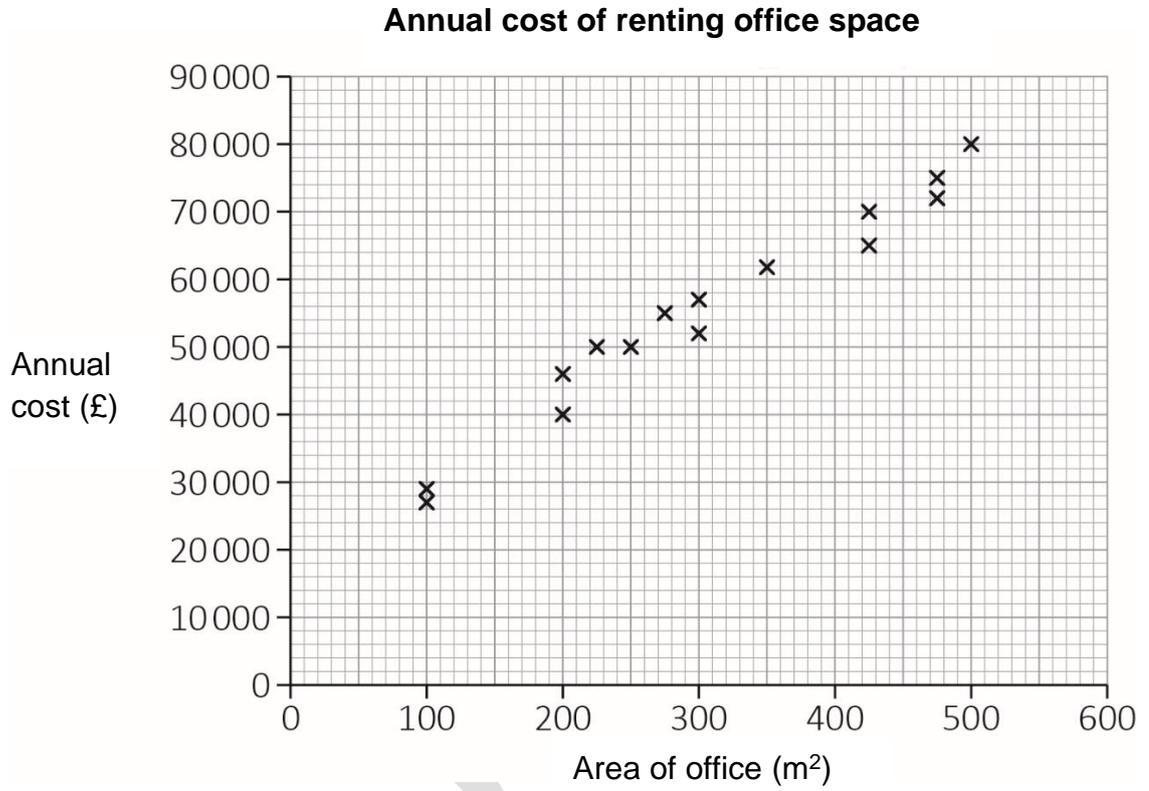
[2 marks]

Your answer:

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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.



past year

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

Estimate the cost of renting a 400 m² office next year.

[4 marks]

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Your answer:

£

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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
Total	£18500

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

[2 marks]

Your answer:

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]

Your answer:

%

[Total marks: 15]

This is the end of Section A.

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