

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

Paper number: SAM

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.

		e completed ne examiner	Mark	
	A Activity 1 B Activity 2		/ 15	
			/ 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.



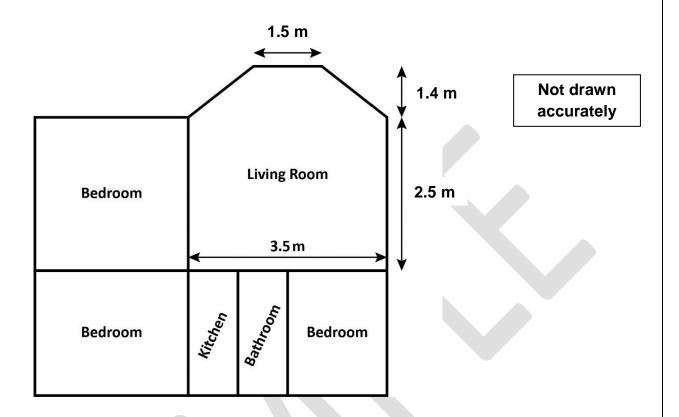
ctivi	ty 1: Flat share				
(a)	Alex, Jas and Stef are students	. They a	re looking for a flat t	o share.	
	They see these adverts online:				
	3 bedroom flats in Upton: £433 per month £450 per month £395 per month £475 per month £389 per month £375 per month	£36 £42 £41 £33	room flats in Downto 8 per month 5 per month 2 per month 0 per month 7 per month	on:	
	E375 per month				
	What percentage of the flats in	Downto	n cost over £420 per	r month?	[1 mark]
	Your ar	nswer:			%
(b)	They want to know which location	on is the	e cheapest.		
	Use the median monthly rental	prices to	show which locatio	n is the cheape	est.
	Show your working.				[3 marks]
	Your ar	nswer:	£		

1 (c) Alex, Jas and Stef each get a student loan to help with living expenses.		
They decide to allocate two fifths of their loans for food, and one-sixth for travel.		
What fraction of their student loan will be left to spend? [2 mail]		
Your answer:		
	They decide to allocate two fifths of their loans for food, and one-sixth for What fraction of their student loan will be left to spend?	

ney find a flat to rent that will contact the rent increases by 2% nex now your working.			n their budget?	[2 marks]
	t year, will i	it still be within	n their budget?	[2 marks]
iow your working.				[2 marks]
Your a	nswer:			
	Your a	Your answer:	Your answer:	Your answer:

1 (e) The plan shows a flat the students like.

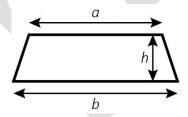
The living room has a trapezium-shaped bay window.



The landlord will replace the carpet in the living room with new flooring, as long as it costs £250 or less.

The new flooring costs £20 per m²

The formula for finding the area of a trapezium is: $\frac{(a+b)}{2} h$



Explain your answer.	[4 marks

1 (f)	Alex, Jas and Stef decide to rent a different 3 bedroomed flat.				
	They choose their bedrooms.				
	 Alex's bedroom has an area of 12 m² 				
	 Jas's bedroom has an area of 18 m² 				
	 Stef's bedroom has an area of 20 m² 				
	They decide to share the rent between them:				
	Option 1 – Share the rent equally between them Option 2 – Share the rent based on the area of their bedrooms.				
	Which option will work out cheapest for Jas?				
	Show your working. [3 marks]				
	Your answer: Option				
	Your answer: Option				
	[Total marks: 15]				
	This is the end of Section A.				