

## **NCFE Entry Level 3 Functional Skills Qualification in Mathematics (603/5061/1)**

Mark scheme: SAM

### **Marking guidelines**

The following mark scheme gives:

- the total marks available for each question
- the subject content referencing
- example process/methods and evidence of the types of responses expected for each mark.

#### *General guidelines*

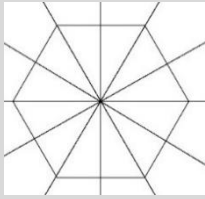
You must apply the following marking guidelines to all marking undertaken throughout the marking period. This is to ensure fairness to all learners, who must receive the same treatment. You must mark the first learner in exactly the same way as you mark the last.

- The mark scheme must be referred to throughout the marking period and applied consistently. Do not change your approach to marking once you have been standardised.
- Reward learners positively giving credit for what they have shown, rather than what they might have omitted.
- Utilise the whole mark range and always award full marks when the response merits.
- Be prepared to award zero marks if the learner's response has no relevant material.
- Do not credit irrelevant material that does not answer the question, no matter how impressive the response might be.
- The marks awarded for each response should be clearly and legibly recorded in the grid on the front of the question paper.
- If you are in any doubt about the application of the mark scheme, you must consult with your Internal Quality Assurer (IQA).

To support the valid, reliable and consistent marking of learner evidence, the following abbreviations are applied throughout the mark scheme:

<b>Annotation</b>	<b>Explanation and use</b>
<b>FT</b>	Follow through marks are applied when there are earlier mistakes in the method.
<b>OE</b>	Or equivalent marks are available for the justification of the answer being presented in a different form to the mark scheme i.e. 0.5 or $\frac{1}{2}$ .
<b>CAO</b>	Correct answer only.
<b>Their</b>	'Their' refers to the learners' own values.
<b>Seen</b>	Seen refers to the requirement to see the stated value in the learner's response or working out.
<b>Imp</b>	Implied refers to the learner's response implying correct working out used but not seen.
<b>Brackets</b>	Indicates units are not required on final answers or for answers seen within working.
<b>BOD</b>	Benefit of doubt where learner handwriting may be difficult to interpret but previous working may indicate correct final answer.
<b>Shaded</b>	Indicates requirements for full marks to be awarded.

Section A Activity 1	Process or Answer	Additional or Alternative Evidence (including guidance)	Marks	PS/UPS	SC
1 (a)	B (8:05)	CAO	1	PS	M13
1 (b)	6.55 (am) or five to seven	OE	1	PS	M12b
1 (c)	No with working seen		2	PS	
	957 or 219 + 291 + 216 + 231	OE	1		N2a
	No with working seen	CAO	1		N2a
1 (d)	$\frac{3}{5}$	CAO	1	UPS	N7
1 (e)	See below		2	UPS	
	B $\frac{4}{10}$		1		N7
	D $\frac{6}{15}$		1		N7
1 (f)	288		2	PS	
	18 × 16	OE e.g. repeat addition or (18 × 10) + (18 × 6)	1		N4
	288	CAO	1		N4
1 (g)	11 (cm)	OE – 110 mm or accept imperial equivalent Allow ± 2 mm tolerance Accept accurate measure from the actual size of the image on the printed page. Assessor to verify.	1	UPS	M18
<b>Total marks</b>			<b>10</b>		

Section B Activity 2	Process or Answer	Additional or Alternative Evidence (including guidance)	Marks	PS/ UPS	SC
<b>2 (a)</b>	19 cm	OE 190 mm	<b>2</b>	<b>PS</b>	
	19	OE 190	1		<b>M15</b>
<b>2 (b)</b>	4 (right angles)	CAO	<b>1</b>	<b>PS</b>	<b>M19b</b>
<b>2 (c)</b>	No with valid reason	OE e.g. it is under the weight / it weighs less than 3.5 (kg) / it is lighter	<b>1</b>	<b>PS</b>	<b>N8</b>
<b>2 (d)</b>	990 (batteries)		<b>2</b>	<b>PS</b>	
	15 x 6 x 11	OE e.g. repeated addition	1		<b>N4</b>
	990 (batteries)	CAO	1		<b>N4</b>
<b>2 (e)</b>	40 x 20 = 800	OE e.g. $800 \div 20 = 40$	<b>2</b>	<b>PS</b>	
	40 and 20 <b>or</b> 800	indicates rounding	1		<b>N5</b>
<b>2 (f)</b>		1 mark for at least 3 lines of symmetry.  2 marks for 6 lines of symmetry.	<b>2</b>	<b>UPS</b>	<b>M19a</b>
<b>Total marks</b>			<b>10</b>		

Activity 3	Process or Answer	Additional or Alternative Evidence (including guidance)	Marks	PS/ UPS	SC												
3 (a)	North east or NE	CAO	1	UPS	M20												
3 (b)	<table border="1"> <thead> <tr> <th>Shop</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Birmingham</td> <td>3</td> </tr> <tr> <td>Derby</td> <td>4</td> </tr> <tr> <td>Highley</td> <td>6</td> </tr> <tr> <td>Stafford</td> <td>5</td> </tr> <tr> <td>Telford</td> <td>2</td> </tr> </tbody> </table>	Shop	Frequency	Birmingham	3	Derby	4	Highley	6	Stafford	5	Telford	2	CAO, all required for the full mark	1	UPS	H21
	Shop	Frequency															
	Birmingham	3															
	Derby	4															
	Highley	6															
Stafford	5																
Telford	2																
3 (c)	2 correct bars drawn	4	PS														
	$370 - 90 = 280$	Extracting Derby value and applying condition	1		H23												
	Birmingham bar plotted correctly – value of 280		1		H23												
	$240 \times 2 = 480$	Extracting Wolverhampton value and applying condition	1		H23												
	Stafford bar plotted correctly – value of 480		1		H23												
3 (d)	No and valid explanation		4	PS													
	Identifying lowest	Reading March as lowest at 120	1		H22												
	Identifying highest	Reading Dec as highest at 550	1		H22												
	Calculating 5 x	$(120) \times 5$ or $(550) \div 5$ FT their readings	1		H22												
	No and valid explanation	e.g. No - Dec needs to be 600 / e.g. No - March needs to be 110 / e.g. No – 5 times higher than 120 is 600 / e.g. No – 5 times lower than 550 is 110 FT their readings	1		H22												
<b>Total marks</b>			<b>10</b>														

Activity 4	Process or Answer	Additional or Alternative Evidence (including guidance)	Marks	PS/UPS	SC
<b>4 (a)</b>	(£)18		<b>2</b>	<b>PS</b>	
	$432 \div 24$	OE e.g. repeat addition or subtraction	1		<b>N3</b>
	(£)18	CAO	1		<b>N3</b>
<b>4 (b)</b>	No <b>with</b> 97p or £0.97	Answer must include correct monetary notation	<b>2</b>	<b>PS</b>	
	(£)8.95 + (£)45.75 + (£)4.33 or (£)59.03 seen	OE	1		<b>M10</b>
	No <b>with</b> 97p or £0.97	CAO do not accept 59.03, £59.03p, 59.03£	1		<b>M10</b>
<b>4 (c)</b>	All values rounded with correct total		<b>2</b>	<b>UPS</b>	
	9, 46 and 4	All values correctly rounded	1		<b>M11</b>
	$9 + 46 + 4 = 59$	CAO	1		<b>M11</b>
<b>4 (d)</b>	Bag B indicated only	Accept 75(mm) × 115(mm)	<b>1</b>	<b>PS</b>	<b>M15</b>
<b>4 (e)</b>	100 (g) or 0.1(0) (kg)		<b>2</b>	<b>PS</b>	
	0.11 - 0.01 or 110 - 10		1		<b>M16</b>
	100 (g) or 0.1(0) (kg)		1		<b>M16</b>
<b>4 (f)</b>	60 (customers) 75 (customers) 90 (customers)	All 3 values seen in correct order for 1 mark	<b>1</b>	<b>PS</b>	<b>N6</b>
<b>Total marks</b>			<b>10</b>		
<b>Overall marks</b>			<b>40</b>		