



Sample Mark Scheme: P000291

NCFE Functional Skills Qualification in Mathematics at Level 1 (501/2325/7)

Activity 1		Marks
1A1	3 (months) with January, February, December	2
	3 (months) OR January, February, December	1
	3 (months) AND January, February, December (accept 3 and Jan, Feb, Dec)	1
1A2	1 in 3, 1/3, 0.33 or 33%	2
	4/12 OR 4 (months), OR named as January, February, March, December (or Jan, Feb, March, Dec)	1
	1 in 3, 1/3, 0.33 or 33% (do not accept 0.3 or 1:3) Follow through (FT) their months/12 in appropriate form	1
1B1	3:2	2
	12:8 or 6:4 (accept 8:12 if clear that this is motorcycle : bus)	1
	Correct answer only (CAO) 3:2	1
1B2	1 hour 30 minutes	2

Activity 1		Marks
	1.5 (hours) OR 90 (minutes) seen OR $6/4 = 1.5$ OR $360/4 = 90$ OR equivalent, for example, 15 mins (travel) = 1 hours (work) or 30 mins (travel) = 2 hours (work). Do not just accept 1 hour (travel) = 4 hours (work)	1
	CAO 1 hour 30 minutes	1
1C1	08:10 and 08:23 (condone 8:10 and 8:23)	2
	08:10 in first data row (accept 8:10 or 8.10)	1
	08:23 in last row (accept 8:23 or 8.23)	1
1C2	33 (minutes) with valid check	4
	CAO 36 (minutes), 34 (minutes), 29 (minutes)	1
	$36 + 34 + 29 / 3$ OR $99/3$ seen. Allow FT for errors on journey times only.	1
	33 (minutes) FT for errors on journey times only	1
	Check using reverse calculation, for example: $33 \times 3 = 99$ or $99 - 29 - 34 = 36$	1
Total marks		14

Activity 2		Marks
2A1	£5.40 must be shown to 2 decimal places with units (£)	3
	10 (journeys) seen OR $2 \times 5 \times 6$ OR 10×6 or evidence of distance (6 or 60) multiplied by cost (0.09 or 9 (pence))	1
		1

Activity 2		Marks
	CAO £5.40 must be shown to 2 decimal places with £	1
2A2	(£) 11.05	3
	(£) 1.95 seen OR $13/100 \times 15$ OR $13/100 \times 85$ OR $1.30 + 0.65$ OR equivalent	1
	$13 \times 0.85 = (11.05)$ OR $13 - 1.95 = (11.05)$ or equivalent	1
	CAO (£) 11.05	1
2A3	£6.15 units required (£)	2
	5×1.23 OR 6.15 OR 615 seen	1
	CAO £6.15 (accept 615 p or 615 pence) units required	1
2B	No, with (£) 175 seen	3
	(£)175 seen or $25 + 50 + 60 + 27 + 13$	1
	$180 - 175 = 5$ OR $175 + 15 = 190$	1
	No with (£) 175 OR no with comparison of (£) 180 and (£) 190 needed. Accept no with explanation of only (£) 5 left or no with explanation of a further (£) 10 needed. Note: yes or no without calculations or amounts = 0 marks	1
2C1	Appropriate table with 6 months' names and corresponding values in rows/columns	2
	Correct months and values (with/without units) shown in separate columns/rows (must be a table, must be structured in columns and rows, accept with or without borders)	1

Activity 2		Marks
	Columns/rows labelled with suitable titles, for example, 'Month' and 'Cost' (must be a table)	1
2C2	(£) 120	2
	330 – 210 correct values and subtraction required	1
	CAO (£) 120	1
Total marks		15

Activity 3		Marks
3A	(£) 699.72 with valid check	4
	7 x 4 (= 28 m ²) or 28 (m ²)	1
	4 x 7 x 24.99 OR 28 x 24.99 FT their area x 24.99 or evidence of	1
	CAO (£) 699.72	1
	Check using reverse calculation, for example, 699.72 / 24.99 = 28, or 28 / 7 = 4 FT	1
3B1	9.3 (metres or m) accept 9 m and 30 cm but not 930 cm	3
	4 – 0.9 OR 400 – 90 OR 3.1 (m) OR 310 (cm) OR 12 – 2.7 (= 9.3)	1
	3.1 x 3 OR 3.1 + 3.1 + 3.1 OR 310 x 3 OR 12 – 2.7 (= 9.3) FT their value x 3 accurately but subtraction required	1
	CAO 9.3 (metres or m) accept 9 m and 30 cm but not 930 cm	1

Activity 3		Marks
3B2	4	2
	9.3 / 2.4 OR 3.875 seen OR 4 x 2.4 OR 2.4 + 2.4 + 2.4 + 2.4 OR 9.6 seen FT their value from 3B1	1
	4 FT their value from 3B1 (whole number and correct lengths (FT) required)	1
3C	8	2
	13 / 1.5 seen OR method counting of 1.5 m multiples, for example, 9 x 1.5 = 13.5 OR equivalent	1
	CAO 8 (spaces)	1
Total marks		11

Overall marks	40
Pass mark:	27

Summary of Skills Standards and Coverage and Range

(Note: where task reference and marks are indicated against a skill standard they can be for any of the associated coverage and range statements)

Skills standards	Total Marks	Required Weighting	Actual Weighting	Coverage and range (can be covered across all skills standards)	Task reference	Marks awarded
Representing R1 understand practical problems in familiar and unfamiliar contexts and	14	30 - 40 %	35%	a. understand and use whole numbers and understand negative numbers in practical contexts b. add, subtract, multiply and divide whole numbers using a range of strategies	2B, 2A1, 1C2, 3A, 3A	5

<p>situations, some of which are non-routine</p> <p>R2 identify and obtain necessary information to tackle the problem</p> <p>R3 select mathematics in an organised way to find solutions</p>				c. understand and use equivalencies between common fractions, decimals and percentages	2A2, 2A2,	2		
				d. add and subtract decimals up to two decimal places				
				e. solve simple problems using ratio where one number is a multiple of the other	1B1, 1B1, 1B2, 1B2, 2A1, 2A1	6		
				f. use simple formulae expressed in words for one- or two-step operations				
<p>Analysing</p> <p>A1 apply mathematics in an organised way to find solutions to straightforward practical problems for different purposes</p> <p>A2 use appropriate checking procedures at each stage</p>	13	30 - 40%	32.5%	g. solve problems requiring calculation with common measures, including money, time, length, weight, capacity and temperature	2A2, 2A3, 2A3, 2B, 3A, 3B1, 3B1, 3B2, 3C, 3B2	10		
				h. convert units of measure in the same system				
				i. work out areas and perimeters in practical situations			3A, 3B1	2
				j. construct geometric diagrams, models and shapes				
<p>Interpreting</p> <p>I1 interpret and communicate solutions to practical problems, drawing simple conclusions and giving explanations</p>	13	30 - 40%	32.5%	k. extract and interpret information from tables, diagrams, charts and graphs	1A1, 1A1, 1C1, 1C1, 1C2, 2B, 2C1, 2C1, 3C	9		
				l. collect and record discrete data and organise and represent information in different ways				
				m. find mean and range	1C2, 1C2, 2C2, 2C2,	4		
				n. use data to assess the likelihood of an outcome	1A2, 1A2	2		
Total marks:	40					40		

Question Type	
Open:	40 (100%)
Closed:	0 (0%)