



NCFE Level 1 Functional Skills Qualification in Mathematics (603/5055/6)

Mark scheme: P002137 OS 25

Assessment window: On demand

v1. Post-standardisation

Examiner Mark Scheme Guidance

Information

This guidance is intended to support NCFE examiners in the valid, reliable and consistent application of the relevant mark scheme version, against learner evidence generated during their external assessment.

This mark scheme provides:

- the total marks available for each question
- the subject content reference for each mark
- example process/methods and evidence of the types of responses expected for each mark
- (once confirmed) the pass mark for the relevant assessment version.

This mark scheme **must** be used for paper-based and online marking of the assessment version indicated.

Instructions and guidance on application

- All learners must receive the same treatment and should be marked fairly. Examiners must mark the first learner in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Learners must be rewarded for what they have shown they can do rather than penalised for things they have not done.
- Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Half marks must not be awarded.
- Examiners should be prepared to award zero marks if the learner's response is not worthy of credit according to the mark scheme.
- The mark scheme is a working document and may be added to at the standardisation to reflect valid alternative answers given by a learner.
- When in doubt regarding the application of the mark scheme to a learner's response, the Chief Examiner must be consulted.

This mark scheme provides the following information:

- section and activity information
- question number
- total marks available per question (top row, shaded) followed by
- attribution of individual marks per question
- problem solving (PS) and underpinning skill (UPS) attribution
- process/method or answers, as well as additional or alternative evidence; indicative of the subject content (SC) attribution
- any additional guidance, as required.

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

Annotation	Explanation and use
FT	Follow through marks are applied when there are earlier arithmetic mistakes in the method.

OE	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 ½.
CAO	Correct answer only.
Their	‘Their’ refers to the learners’ own derived values.
Seen	Seen refers to the requirement to see the stated value in the learner’s response or working out.
Imp	Implied refers to the learner’s response implying correct working out used but not seen.
Brackets	Indicates units are not required on final answers or for answers seen within working.
BOD	Benefit of doubt where learner handwriting may be difficult to interpret but previous working may indicate correct final answer.
Shaded	Indicates requirements for full marks to be awarded.
Coloured SC box	On-screen only: indicates where SC ref will appear out of order in the Learning Outcomes marking screen

Version Control

Mark schemes are subject to version control. Examiners **must** ensure they have access to the latest version following each standardisation event.

Over time mark schemes will incorporate additional evidence captured and confirmed during standardisation events. Any additional evidence criteria will be captured in colour-coded text applicable to the dated standardisation event.

Recording of marks

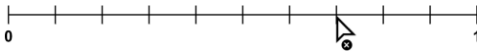
Paper-based: Individual marks should be annotated in the ‘Examiner’ column in the learner script, added up and recorded at the end of each activity. The overall marks awarded for each learner should be clearly and legibly recorded in the grid on the front of the learner script.

Online: Onscreen marking tools (i.e. ticks, crosses) marks should be applied to indicate application throughout the learner script, in addition to marks being recorded numerically within the corresponding ‘Learning Outcomes’ box, indicated by the relevant Subject Content reference.

Annotation	Explanation and use
Tick	Used to indicate correct values/method or final answer.
Red highlight	Used to indicate where the learner has made an error in either the value used or an incorrect calculation.
Red line box	Used to indicate where the learner may have made an error that has resulted in benefit of doubt being applied i.e. transposition of figures but previous working clearly shows otherwise.

Paper number: P002137			Version: 1.3	Pass mark: 36	
(Section A) Activity 1: Waterpark			(Non-calculator Test)		
Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
1 (a)	1	UPS	2.5	CAO	N3b
1 (b)	2	UPS	18 000 (gallons)	Award 2 marks if correct answer given	
	1		$9 \times 2 (\times 1000)$	OE Any full correct method Brackets not required	N17
	1		18 000 (gallons)	CAO	N3a
1 (c)	3	PS	See below	Award 3 marks if correct answer given from correct methods and accurate values if working seen	
	Alternative method 1 – Calculates volume				
	1		$80 \times 80 \times 72$	OE Any full correct method to find volume Accept $80 \times 80 \times 80$ or 512 000	M23
	1		460 800 (cm ³)	CAO 460 800 implies 1 st mark	M23
	1		No AND 460 800 (cm ³)	OE No supported by correct working FT their volume from correct method compared with 480 000 Accept Yes AND 512 000 only if 2 nd mark not awarded	N1b
	Alternative method 2 – Reverse process (Not expected at Level 1)				
	1		480 000 ÷ 80 ÷ 80 OR 480 000 ÷ 80 ÷ 72 OR 480 000 ÷ 72 AND 80 × 80 OR $\sqrt{480000 \div 72}$ or $\sqrt{6666.6(666...)}$	OE Any full correct method to find figures to compare Square root method is not expected at Level 1 but award mark if seen	M23
	1		75 (cm deep) OR 83(.333...) (cm wide) OR 6666(.666...) and 6400 (cm ²)	CAO Implies 1 st mark Answers of 3dp or more are not expected at Level 1 but award mark if seen	M23
	1		No AND 75 (cm deep) OR No AND 83(.333...) (cm wide) OR No AND 6666(.666...) and 6400 (cm ²)	OE No supported by correct working FT their 75 or their 83(.333...) or their 6666(.666...) and 6400 from correct methods	N1b
	1 (d)	4	PS	See below	
1			0.6	CAO	N15
1			48 × their 0.6	OE Any full correct method to convert temperature	N7

				FT their 0.6 Only accept use of 0.5 or 0.55 or 0.56 or 0.555 48 from 80 – 32	
	1		28.8 (°C)	FT the correct answer to $48 \times$ their 0.6 only using 0.5, 0.55 or 0.56 only if 1 st mark not awarded Only accept 24 from 48×0.5 26.4 from 48×0.55 26.8(8) from 48×0.56	N11b
	1		29 (°C)	FT their answer to 48×0.55 or 48×0.56 or 48×0.555 correctly rounded to the nearest whole number from a minimum of 1dp seen Award 1 mark only for 29 seen without working	N12
1 (e)	5	PS	Yes AND 21.45 (m) OR Yes AND 2145 (cm) and 2150 (cm) OR Yes AND 0.05 (m left) or 5 (cm left)	Award 5 marks if correct answer given from correct methods and accurate values if working seen	
	1		12.75 – 2.8 – 2.8 OR 1275 – 280 – 280	OE Any full correct method to find side length of smaller square in consistent units	M22b
	1		7.15 (m) OR 715 (cm)	CAO 7.15 (m) or 715 (cm) implies 1 st mark	N11a
	1		Their 7.15 + their 7.15 + their 7.15 OR their 715 + their 715 + their 715 OR 21.5 – their 7.15 – their 7.15 – their 7.15 OR 2150 – their 715 – their 715 – their 715	OE Any full correct method to find length of rope FT Their 7.15 or 715 from correct method to find side length of square	M22b
	1		21.45 (m) OR 2145 (cm) OR 0.05 (m) OR 5 (cm)	FT The correct answer using their 7.15 or 715 from correct method 21.45 or 2145 implies 1 st 3 marks	N11a
	1		Yes AND 21.45 (m) OR Yes AND 2145 (cm) and 2150 (cm) OR Yes AND 0.05 (m left) or 5 (cm left)	OE Yes supported by correct working FT Their decision with their values from correct methods	N10

(Section B) Activity 2: Delivering milk			(Calculator Test)		
Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
2 (a)	1	UPS	(£)0.85	CAO	M20d
2 (b)	2	UPS	See below		
2 (b) (i)	1		$\frac{28}{40}$ or $\frac{7}{10}$	CAO OE Fraction	H31
2 (b) (ii)	1			<p>Mark intention FT their $\frac{7}{10}$ OE</p> <p>Accept $\frac{5}{40}$ or 0.125, $\frac{7}{40}$ or 0.175 or $\frac{12}{40}$ or 0.3 only</p> <p>Scale indication must follow their fraction if given. If scale indication is correct but doesn't follow their fraction, then neither mark can be awarded.</p> <p>Correct scale indication implies 1st mark, only if no fraction given</p>	H30a
2 (c)	3	PS	No AND 8.18(4) (km) or 8.2 (km) OR No AND 8184 (m) and 8500 (m) OR No AND 13 709(.677...) (steps) or 13 710 (steps) OR No AND 0.64(393...) (stride length m)	Award 3 marks if correct answer given from correct methods and accurate values if working seen	
Alternative method 1 – Proportion then conversion					
	1		$13\,200 \times 0.62 (\div 1000)$ or 8184 (m)	OE Any full correct method Brackets not required	N17
	1		8.18(4) (km) OR 8500 (m)	CAO Accept 8.2 (km) 8.18(4) or 8.2 implies 1 st mark	M20a
	1		No AND 8.18(4) or 8.2 (km) OR No AND 8184 (m) and 8500 (m)	OE No supported by correct working	N10
Alternative method 2 – Conversion then proportion (Not expected at Level 1)					
	1		0.00062 (km)	CAO Answers to more than 3dp not expected at Level 1 but award if seen	M20a
	1		Their $0.00062 \times 13\,200$ or 8.18(4)	OE Any full correct method FT Their 0.00062 from correct method for conversion Accept 8.2 (km) 8.18(4) or 8.2 implies 1 st mark	N17

	1		No AND 8.18(4) or 8.2 (km)	OE No supported by correct working	N10
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Alternative method 3 – Reverse process (Not expected at Level 1)				
	1		8500 (m)	CAO M20a
	1		Their $8500 \div 0.62$ or $13\,709(.677\dots)$ (steps) OR Their $8500 \div 13\,200$ or $0.64(393\dots)$ (m)	OE Any full correct method FT Their 8500 from a correct method for conversion Answers to more than 3dp not expected at Level 1 but award if seen Accept $13\,710$ (steps) $13\,709(.677\dots)$ or $13\,710$ or $0.64(393\dots)$ implies 1 st mark N17
	1		No AND $13\,709(.677\dots)$ or $13\,710$ (steps) OR No AND $0.64(393\dots)$ (stride length m)	OE No supported by correct working N10
2 (d)	3	PS	5000 (pints of milk)	Award 3 marks if correct answer given from correct methods and accurate values if working seen
	1		$21\,000 \div (10 + 12 + 6 + 14)$ or $21\,000 \div 42$ or 500 (per minor gridline) OR $21\,000 \div (2.5 + 3 + 1.5 + 3.5)$ or 2000 OR $21\,000 \div 10.5$ or 2000 (per major gridline) OR $\frac{10}{42}$ or $0.23(809\dots)$ or 0.24 or $23.8(095\dots)(\%)$ or $24(\%)$	OE Any method to find a relationship between the total number of pints and the number of gridlines 10, 12, 6 and 14 are the number of minor gridlines for each person 42 is the total number of minor gridlines 2.5, 3, 1.5 and 3.5 are the number of major gridlines for each person 10.5 is the total number of major gridlines OE Fraction Infinite decimals are not expected at Level 1 but award mark if seen OE Way of recognising that Lily delivered 10 out of 42 of the total amount H27c
	1		$10 \times$ their 500 OR $2.5 \times$ their 2000 OR $10 \times 21\,000 \div 42$	OE Any full correct method to work out how many pints Lily delivered FT their 500 or their 2000 or their $\frac{10}{42}$ from correct method. lhs '1st line 'or 5000', 2nd line 'or 7000' and 3rd line 'or 500' and rhs '500 implies 1st mark' 5000 implies 1st 2 marks. H27c
	1		5000 (pints of milk)	CAO Accept 4998 from use of 23.8% / 0.238 or 4830 from use of 23% / 0.23 or 5040 from use of 24% / 0.24 H27c
2 (e)	4	PS	No 1875 (bottles to be collected) OR No AND 16 800 (bottles delivered)	Award 4 marks if correct answer given from correct methods and accurate values if working seen
	Alternative method 1 – Working out the number of bottles needed to reach target			
	1		$\frac{5}{8}$	CAO May be seen or implied in subsequent working N8a

	1		21 000 ÷ (1 + 6) or 3000 (glass bottles delivered)	OE Any full correct method to apply ratio	N17
	1		Their 3000 × 5 ÷ 8 or 1875	OE Any full correct method to find fraction of their 3000 FT their 3000 from 21 000 ÷ 7 or 21 000 ÷ 6 only 1875 implies 1 st two marks	N9
	1		No AND 1875 (bottles to be collected)	OE No supported by correct working	N1b
Alternative method 2 – Reverse process (Not expected at Level 1)					
	1		$\frac{5}{8}$	CAO May be seen or implied in subsequent working.	N8a
	1		1500 ÷ 5 × 8 or 2400	OE Any full correct method 2400 implies 1 st mark	N9
	1		Their 2400 × (1 + 6) or 16 800	OE Any full correct method to apply ratio FT their 2400 from an attempt to find fraction of 1500 Allow use of their value from 1500 ÷ 8 × 5 16 800 implies 1 st two marks	N17
	1		No AND 16 800 (bottles delivered)	OE No supported by correct working	N1b
Alternative method 3 – Comparing fractions (Not expected at Level 1)					
	1		$\frac{5}{8}$	CAO May be seen or implied in subsequent working.	N8a
	1		21 000 ÷ (1 + 6) or 3000 (glass bottles delivered)	OE Any full correct method to apply ratio	N17
	1		$\frac{1500}{3000}$ or $\frac{1}{2}$ or $\frac{4}{8}$	OE Fraction Writing one number as a fraction of another is not expected at Level 1 but award if seen FT their 3000 from an attempt to apply ratio Accept use of their value from 21 000 ÷ 6 3000 seen in fraction or an OE fraction implies 2 nd mark	N9
	1		No AND $\frac{4}{8}$ and $\frac{5}{8}$	OE No supported by correct working Accept any fractions OE that allow a direct comparison.	N1b
2 (f)	2	UPS	See below	Award 2 marks for fully correct table	
	1		3 frequencies correct OR 4 frequencies with 2 correct and which sums to 20	20 does not need to be seen in total row	H28a
	1		Fully correct table		H28a

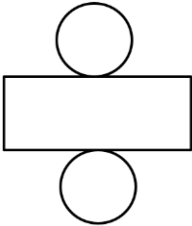
Additional Guidance

Number of pints	Number of days
10 – 19	1
20 – 29	9
30 – 39	5
40 – 49	5
Total:	20

Activity 3: Moons in our solar system			(Calculator Test)		
Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
3 (a)	2	UPS	165 (moons)	Award 2 marks if correct answer given from correct methods and accurate values if working seen	
	1		$220 \times 3 \div 4$	OE Any full correct method	N9
	1		165 (moons)	CAO	N9
3 (b)	2	PS	5212.2 (km)	Award 2 marks if correct answer given from correct methods and accurate values if working seen	
	1		3474.8×0.5 or 1737.4 OR 3474.8×1.5	OE Any full correct method to find percentage of amount or percentage increase	N14
	1		5212.2 (km)	CAO	N14
3 (c)	3	PS	3200 (mph)	Award 3 marks if correct answer given from correct methods and accurate values if working seen	
	1		240 000	CAO May be seen in a calculation	N1a
	1		Their $240\,000 \div 75$	OE Any full correct method to apply formula Their 240 000 Accept use of 2 400 000, 204 000, 200 400, 200 040, 24 000, 20 400 or 20 040	N5
	1		3200 (mph)	FT the correct answer to their $240\,000 \div 75$ using values given in 2 nd mark	N5

3 (d)	4	PS	See below	Award 4 marks if correct answer given from correct methods and accurate values if working seen	
	Alternative method 1 – Working out total time				
	1		48 × 11 or 528 (mins)	OE Any full correct method to work out total time	N17
	1		8.8 (hours) OR 8 hours 48 mins 480 (mins) OR 0.75 (hours) or 45 (mins) OR 8.75 (hours) or 8 (hours) and 45 (mins) OR 525 (mins) OR 0.8 (hours) or 48 (mins)	OE Any one correct time conversion FT their 528 from correct method to find total time if time conversion process seen 8.8 from 528 ÷ 60 480 from 8 × 60 525 from 8 × 60 + 45 0.8 from 528 ÷ 60 – 8 48 from 0.8 × 60	M20e
	1		8.8 (hours) AND 8.75 (hours) OR 528 (mins) AND 525 (mins) OR 8 hours and 48 mins AND 8 hours and 45 mins	OE Any two comparable times Do not accept 0.8 and 0.75 or 48 mins and 45 mins	M20e
	1		Yes AND (8).8 (hours) AND (8).75 (hours) OR Yes AND 528 (mins) AND 525 (mins) OR Yes AND 8 hours and 48 mins AND 8 hours and 45 mins	OE Yes supported by correct working FT their decision from correct method to apply proportion and from their values to compare Do not accept 0.8 and 0.75 or 48 mins and 45 mins	M20e
	Alternative method 2 – Reverse process (Not expected at Level 1)				
	1		525 (mins)	Correct time conversion for $8\frac{3}{4}$ hours	M20e
	1		Their 525 ÷ 11 OR their 525 ÷ 48	OE Any full correct method to apply proportion FT their 525 from 8.75 × 60 if method seen	N17
	1		47.7(272...) (mins per orbit) OR 10.9(375) (orbits)	OE Time Infinite decimals are not expected at Level 1 but award mark if seen	M20e
	1		Yes AND 47.7(272...) (mins per orbit) OR Yes AND 10.9(375) (orbits)	OE Yes supported by correct working FT their decision from correct method to apply proportion and from their values to compare	M20e

3 (e)	2	PS	See below	Award 2 marks if correct answer given from correct methods and accurate values if working seen	
	Alternative method 1 – Working in kilograms				
	1		(21.6 + 34.3 + 42.8 + 76.7 + 95.2 + 110.4) ÷ 6 or 63.5 (kg) OR 381 ÷ 6 or 63.5 (kg)	OE Any full correct method Allow 21.6 + 34.3 + 42.8 + 76.7 + 95.2 + 110.4 ÷ 6 if seen	H29a
	1		No AND 63.5 (kg)	OE No supported by correct working	H29a
	Alternative method 2 – Working in grams				
	1		(21 600 + 34 300 + 42 800 + 76 700 + 95 200 + 110 400) ÷ 6 or 63 500 (g) OR 381 000 ÷ 6 or 63 500 (g)	OE Any full correct method Allow 21 600 + 34 300 + 42 800 + 76 700 + 95 200 + 110 400 ÷ 6 if seen	H29a
	1		No AND 63 500 (g) and 65 000 (g)	OE No supported by correct working	H29a
	Alternative method 3 – Reverse process working in kilograms (Not expected at Level 1)				
	1		21.6 + 34.3 + 42.8 + 76.7 + 95.2 + 110.4 or 381 (kg) AND 65 × 6 or 390 (kg)	OE Any full correct method to apply reverse process	H29a
	1		No AND 381 (kg) and 390 (kg)	OE No supported by correct working	H29a

Alternative method 4 – Reverse process working in grams (Not expected at Level 1)					
	1		21 600 + 34 300 + 42 800 + 76 700 + 95 200 + 110 400 or 381 000 (g) AND 65 000 × 6 or 390 000 (g)	OE Any full correct method to apply reverse process	H29a
	1		No AND 381 000 (g) and 390 000 (g)	OE No supported by correct working	H29a
3 (f)	2	UPS	$\frac{16}{100}$ AND 0.16	Award 2 marks if correct answer given	
	1		$\frac{16}{100}$ OR 0.16	CAO OE Fraction	N16
	1		$\frac{16}{100}$ AND 0.16	OE Fraction FT their fraction and decimal if equivalent	N16
Activity 4: Moving house (Calculator)					
Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
4 (a)	1	UPS	(£)160	CAO	H29b
4 (b)	2	PS	Company A AND $\frac{4}{200}$ OR Company A AND $\frac{3}{150}$ OR Company A AND 0.02 and 0.015 OR Company A AND 2(%) and 1.5(%)	Award 2 marks if correct answer given	
	1		$\frac{4}{200}$ OR $\frac{3}{150}$ OR 0.02 and 0.015 OR 2(%) and 1.5(%)	OE Fraction which allows a direct comparison Allow finding $\frac{1}{50}$ and $\frac{3}{200}$ of the same value	H30b
	1		Company A AND $\frac{4}{200}$ OR Company A AND $\frac{3}{150}$ OR Company A AND 0.02 and 0.015 OR Company A AND 2(%) and 1.5(%)	OE Fraction which allows a direct comparison OE Company A supported by correct working	H30b
4 (c)	1	UPS		CAO	M25b

4 (d)	2	PS	45 (posters)	Award 2 marks if correct answer given		
	1		15×3	OE Any full correct method to apply multiplication facts	N4	
	1		45 (posters)	CAO	N4	
4 (e)	5	PS	See below			
	Alternative method 1 – Scale, area, total number of tiles then discount					
	1		2.4 × 2 or 4.8 (m) OR 3.2 × 2 or 6.4 (m)	OE Any full correct method to apply the scale	M21	
	1		Their 4.8 × their 6.4 or 30.72 (m ²) or 31 (m ²)	OE Any full correct method FT Their 4.8 and their 6.4 from correct method to apply scale 30.72 or 31 implies 1 st mark	M22a	
	1		Their 31 × 8 or (£)248	OE Any full correct method FT Their 31 from a correct method for <u>area correctly rounded up</u> to the nearest whole number 31 implies 1 st two marks	N12	
	1		Their 248 × 0.85 or (£)210.8(0) OR Their 248 × 0.15 or (£)37.2(0)	OE Any full correct method to find total or discount FT Their 248 if a whole number has been used in 3 rd mark 210.8 or 37.2 implies 1 st three marks	M19	
	1		£210.80	CAO 2dp required Award this mark only for £210.80 seen without working	M19	
	Alternative method 2 – Scale, area, discount then total					
	1		2.4 × 2 or 4.8 (m) OR 3.2 × 2 or 6.4 (m)	OE Any full correct method to apply the scale	M21	
	1		Their 4.8 × their 6.4 or 30.72 (m ²) or 31 (m ²)	OE Any full correct method FT Their 4.8 and their 6.4 from correct method to apply scale 30.72 or 31 implies 1 st mark	M22a	
	1		8 × 0.85 or 6.8(0) OR 8 × 0.15 or 1.2(0)	OE Any full correct method to find total or discount on one square metre of carpet tiles	M19	
	1		Their 31 × their 6.8(0) or (£)210.8(0) OR Their 31 × (8 – their 1.2(0)) or (£)210.8(0)	OE Any full correct method FT Their 31 from a correct method for area correctly rounded up to the nearest whole number FT Their 6.8 or their 1.2 from correct method for percentage 210.8 implies 1 st three marks	N12	
	1		£210.80	CAO 2dp required Award this mark only for £210.80 seen without working	M19	

Alternative method 3 – Area, scale, total number of tiles then discount (Not expected at Level 1)				
1		2.4×3.2 or $7.68 \text{ (cm}^2\text{)}$	OE Any full correct method	M22a
1		Their 7.68×4 or $30.72 \text{ (m}^2\text{)}$ or $31 \text{ (m}^2\text{)}$	OE Any full correct method to apply the scale FT Their 7.68 from correct method for area 30.72 or 31 implies 1 st mark	M21
1		Their 31×8 or (£)248	OE Any full correct method FT Their 31 from a correct method to find area first and an attempt to apply scale Allow $\times 2$ for scale Their 31 must come from their answer correctly rounded up to the nearest whole number 248 implies 1 st two marks	N12
1		Their 248×0.85 or (£)210.8(0) OR Their 248×0.15 or (£)37.2(0)	OE Any full correct method to find total or discount FT Their 248 if a whole number has been used in 3rd mark 210.8 or 37.2 implies 1 st three marks	M19
1		£210.80	CAO 2dp required Award this mark only for £210.80 seen without working	M19
Alternative method 4 – Area, scale, discount then total (Not expected at Level 1)				
1		2.4×3.2 or $7.68 \text{ (cm}^2\text{)}$	OE Any full correct method	M22a
1		Their 7.68×4 or $30.72 \text{ (m}^2\text{)}$ or $31 \text{ (m}^2\text{)}$	OE Any full correct method to apply the scale FT Their 7.68 from correct method for area 30.72 or 31 implies 1 st mark	M21
1		8×0.85 or $6.8(0)$ OR 8×0.15 or $1.2(0)$	OE Any full correct method to find total or discount on one square metre of carpet tiles	M19
1		Their $31 \times$ their $6.8(0)$ or (£)210.8(0) OR Their $31 \times (8 -$ their $1.2(0))$ or (£)210.8(0)	OE Any full correct method FT Their 31 from a correct method to find area first and an attempt to apply scale Allow $\times 2$ for scale Their 31 must come from their answer correctly rounded up to the nearest whole number FT Their 6.8 or their 1.2 from correct method for percentage 210.8 implies 1 st three marks	N12
1		£210.80	CAO 2dp required Award this mark only for £210.80 seen without working	M19

Alternative method 5 – Rounding the dimensions rather than area scale, area, total number of tiles then discount				
	1		2.4 × 2 or 4.8 (m) or 5 (m) OR 3.2 × 2 or 6.4 (m) or 7 (m)	OE Any full correct method to apply the scale M21
	1		5 AND 7	FT Their 4.8 and their 6.4 correct rounded up to the nearest whole number 5 or 7 implies 1 st mark N12
	1		Their 5 × their 7 (× 8) or 35 (m ²) OR 280	OE Any full correct method FT Their 5 and their 7 from correct method to apply scale and correctly rounded up to the nearest whole number 35 or 280 implies 1 st two marks M22a
	1		Their 280 × 0.85 or (£)238 OR Their 280 × 0.15 or (£)42	OE Any full correct method to find total or discount FT Their 280 if whole numbers have been used in 3 rd mark (£)238 or (£)42 implies 1 st three marks M19
	1		£238	CAO M19
Alternative method 6 – Rounding the dimensions rather than area scale, area, discount then total				
	1		2.4 × 2 or 4.8 (m) or 5 (m) OR 3.2 × 2 or 6.4 (m) or 7 (m)	OE Any full correct method to apply the scale M21
	1		5 AND 7	FT Their 4.8 and their 6.4 correct rounded up to the nearest whole number 5 or 7 or 35 implies 1 st mark N12
	1		8 × 0.85 or 6.8(0) OR 8 × 0.15 or 1.2(0)	OE Any full correct method to find total or discount on one square metre of carpet tiles M19
	1		Their 5 × their 7 (× their 6.8(0)) or 35 or (£)238 OR Their 5 × their 7 × (8 – their 1.2(0)) or 35 or (£)238	OE Any full correct method FT Their 5 and their 7 from a correct method to apply scale and correctly rounded up to the nearest whole number 35 implies 1 st two marks 238 implies 1 st three marks M22a
	1		(£)238	CAO M19
4 (f)	1	UPS	64	CAO N6
4 (g)	3	PS	(£)60	Award 3 marks if correct answer given from correct methods and accurate values if working seen
	1		1400 × 0.05 × 3 or 210 OR 1400 + (1400 × 0.05 × 3) or 1610	OE Any full correct method to work out interest or total amount in savings account M18
	1		1670 – [1400 + (1400 × 0.05 × 3)] or 1670 – (1400 + their 210) or 1670 – their 1610	OE Any full correct method to work out how much extra is needed FT Their 210 or their 1610 from fully correct method 210 or 1610 implies 1 st mark M18
	1		(£)60	CAO M18