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

Mark scheme: P002126 OS23

Assessment window: on demand

v1.5 Post-standardisation refresher

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 alterative 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: P002126 P23 Onscreen				Version: 1.5		Pass mark: 36

(Section A) Activity 1: Registry office   **(Non-calculator Test)**

Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
1 (a)	**2**	**UPS**	9408 or 0.009408 million	Award 2 marks if correct answer given	
	1		0.625008 (million) OR 615 600	Correct answer to writing a number in a different format	N2a
	1		9408 or 0.009408 million	OE CAO	N2a
1 (b)	**3**	**PS**	See below		
	1		625 000 AND 50 000	CAO	N2b
	1		Their 50 (000) ÷ their 625 (000) OR $\dfrac{\text{Their } 50(000)}{\text{Their } 625(000)}$	OE Fraction FT their rounded values Award if one rounded value is correct and the other value is from the list below Only allow use of 52 000, 52 200, 52 240 or 52 239 or use of 600 000, 630 000, 625 010 or 625 008 Accept 0.08 or 8(%) seen	N8
	1		$\dfrac{2}{25}$	Accept 2 out of 25 or 2 over 25 FT Their 625 000 and their 50 000 only if 1st mark not awarded Award if one rounded value is correct and the other value is from the list below Only accept use of 52 000, 52 200 or 52 240 or 600 000, 630 000 or 625 010 Award 1 mark only for or 2 out of 25 or 2 over 25 seen without working	N4
1 (c)	**2**	**PS**	No AND 1 403 020 OR eg No AND 865 511 and 859 491	Award 2 marks if correct answer given	
	1		1 403 020 OR eg 865 511 AND 859 491	CAO Addition of four values in table OR addition of two or three values and subtraction of two or one values from 1 400 000 865 511 from 659 765 + 200 790 + 1956 859 491 from 1 400 000 – 540 509	N2a
	1		No AND 1 403 020 OR eg No AND 865 511 and 859 491	OE No supported by correct working FT their decision from correct process to add or add and subtract if seen Allow one transcription error	N1b

1 (d)	4	PS	See below		
	1		32	CAO mean	H25
	1		14 AND 20	CAO ranges	H25
	1		Valid comment to show Statement A is correct eg 32 is higher than 30	OE correct reason FT Their 32 from correct method if seen	H25
	1		Valid comment to show Statement B is correct eg 14 is lower than 20	OE correct reason FT Their 14 and 20 from correct method if seen Both ranges must be seen for the mark	H25
1 (e)	3	PS	3.27 (m) AND 2.35 (m)	Award 3 marks if correct answer given. from correct methods and accurate values If working seen	
	1		1.82 + 0.725 + 0.725 OR 0.9 + 0.725 + 0.725	OE Any full correct method to find total length of either dimension	M20
	1		2.545 (m) or 1.45 (m) or 1.625 (m) or 3.27 (m) or 2.35 (m)	CAO OE units 2.545 from 1.82 + 0.725 1.45 from 0.725 + 0.725 1.625 from 0.9 + 0.725 3.27 from 1.82 + 0.725 + 0.725 2.35 from 0.9 + 0.725 + 0.725	N10a
	1		3.27 (m) AND 2.35 (m)	CAO OE units Accept correct dimension in either box	N10a
1 (f)	1	UPS	2.275	CAO	N10b

(Section B) Activity 2: Route 66					

Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
2 (a)	**2**	PS	No AND $\frac{13}{16}$ and $\frac{12}{16}$ OR No AND 0.8(125) and 0.7(5) OR No AND 81(.25)(%) and 75(%)	Award 2 marks if correct answer given	
	1		$\frac{13}{16}$ and $\frac{12}{16}$ OR $\frac{39}{48}$ and $\frac{39}{52}$ OR 0.8(125) and 0.7(5) OR 81(.25)(%) and 75(%)	OE fractions that allow a direct comparison $\frac{13}{16}$ from $\frac{338}{416}$ $\frac{12}{16}$ from $\frac{396}{528}$ Allow method of finding fraction of same value	N7b
	1		No AND $\frac{13}{16}$ and $\frac{12}{16}$ OR No AND 0.8(125) and 0.7(5) OR No AND 81(.25)(%) and 75(%) OR No AND $\frac{39}{48}$ and $\frac{39}{52}$	OE No supported by correct working	N7b
2 (b)	**3**	PS	12 (days)	Award 3 marks if correct answer given from correct methods and accurate values if working seen	
	Alternative method 1 – Using miles				
	1		3940 × 0.621 or 2446.74 (miles)	OE Any correct method to convert km to miles Accept 2466.7 or 2447	M14a
	1		Their 2446.74 ÷ 55 (÷ 4) or 44.48(618…) or 44.49 (total hours required) or 11.1(2…) (days required) OR 55 × 4 or 220 (miles per day) AND their 2446.74 ÷ their 220 or 11.1(2…) (days required	OE Any full correct method to work out total driving time or number of days FT their 2446.74 from correct method for conversion Accept use of any correct rounding or truncation of their 2446.74 44.48(618…) or 44.49 or 11.1(2…) implies 1st mark	M15
	1		12 (days)	CAO	N9b

Alternative method 2 – Using kilometres

1		55 ÷ 0.621 or 88.56(682…) (km per hour)	OE Any correct method to convert mph to km per hr Accept 220 ÷ 0.621 or 354(.267…) (km per day) 220 from 55 x 4 Accept 88.6 or 88.57	M14a
1		3940 ÷ their 88.56(682…) (÷ 4) or 44.48(618…) or 44.49 (total hours required) or 11.1(2…) (days required)	OE Any full correct method to work out total driving time or number of days FT their 88.56(682…) from a correct method for conversion	M15
			Accept use of any correct rounding or truncation of their 88.56(682…) 44.48(618…) or 44.49 or 11.1(2…) implies 1st mark	
1		12 (days)	CAO	N9b
2 (c) **6**	**PS**	See alternative methods below	Award 6 marks if correct answer given from correct methods and accurate values if working seen	

Alternative method 1 – Working in US dollars: median then percentage then proportion then foreign exchange

1		3.84, 3.86, 3.86, 3.90, 4.10…. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		Their 4 × 1.12 or 4.48 OR their 4 × 0.12 or 0.48	OE Any full correct method for percentage or percentage increase Their 4 must be in the range [3.84, 5.73] 4.48 or 0.48 implies 1st two marks	N6a
1		4148 ÷ 68 × their 4.48 or ($)273.28 OR 4148 ÷ 68 or 61 (gallons)	OE Any full correct method to work cost of fuel in US dollars FT Their 4 after an attempt to find median and percentage increase 273.28 implies 1st three marks	N11a
1		Their 273.28 × 0.8 OR Their 61 × 4.48 × 0.8 or 218.624	OE Any full correct method to work out cost in pounds FT their 273.28 from correct method to find cost of fuel in US dollars using their values	N11a
1		(£)218.62 or (£)218.63	CAO Must include correct money format (2dp)	M13a

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Alternative method 2 – Working in US dollars: median then percentage then foreign exchange then proportion

1		3.84, 3.86, 3.86, 3.90, 4.10 …. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		Their 4 × 1.12 or 4.48 OR their 4 × 0.12 or 0.48	OE Any full correct method for percentage or percentage increase Their 4 must be in the range [3.84, 5.73] 4.48 or 0.48 implies 1st two marks	N6a
1		Their 4.48 × 0.8 or (£)3.58(4)	FT their 4.48 after an attempt to find median and percentage increase 3.58(4) implies 1st three marks	N11a
1		4148 ÷ 68 × their 3.58(4) OR 4000 ÷ 68 × their 3.67(74) OR 4000 ÷ 68 × their 3.68	OE Any full correct method to work cost of fuel in US dollars FT their 3.67(416) or 3.67(74) or 3.68 from correct method to convert to £ using their values	N11a
1		(£)218.38 OR (£)218.62 or (£)218.63	CAO Must include correct money format (2dp) 218.38 from 4148 ÷ 68 × their 3.58 218.62 from 4148 ÷ 68 × their 3.584	M13a

Alternative method 3 – Working in US dollars: median then proportion then percentage then foreign exchange

1		3.84, 3.86, 3.86, 3.90, 4.10 …. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		4148 ÷ 68 × their 4 or 244	OE Any full correct method to work cost of fuel in US dollars. Their 4 must be in the range [3.84, 5.73] 244 implies 1st two marks	N11a
1		Their 244 × 1.12 or 273.28 OR their 244 × 0.12 or 29.28	OE Any full correct method for percentage or percentage increase FT their 244 after an attempt to find median and cost in US dollars 273.28 or 29.28 implies 1st three marks	N6a
1		Their 273.28 × 0.80	OE Any full correct method to work out cost in pounds FT their 273.28 from correct method to find percentage increase using their values	N11a
1		(£)218.62 or (£)218.63	CAO Must include correct money format (2dp)	M13a

Alternative method 4 – Working in US dollars: median then proportion then foreign exchange then percentage

1		3.84, 3.86, 3.86, 3.90, 4.10 …. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		4148 ÷ 68 × their 4 or 244 OR 4148 ÷ 68 or 61 (gallons)	OE Any full correct method to work cost of fuel in US dollars. Their 4 must be in the range [3.84, 5.73] 244 implies 1st two marks	N11a
1		Their 244 × 0.8 or (£)195.2(0)	OE Any full correct to work out cost in pounds FT their 244 from correct method 195.2 implies 1st three marks	N11a
1		Their 195.2 × 1.12 OR 195.2 × 0.12 or 23.42(4)	OE Any full correct method for percentage or percentage increase FT their 195.2 from an attempt to find median and work with proportion	N6a
1		[(£)218.62 or (£)218.63	CAO Must include correct money format (2dp)	M13a

Alternative method 5 – Working in US dollars: median then foreign exchange then proportion then percentage

1		3.84, 3.86, 3.86, 3.90, 4.10 …. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		Their 4 × 0.8 or (£)3.2(0)	OE Any full correct method to work out cost in pounds Their 4 must be in the range [3.84, 5.73] 3.2 implies 1st two marks	N11a
1		4148 ÷ 68 × their 3.2 or 195.2(0)	OE Any full correct method to work cost of fuel in US dollars. FT Their 3.2 from correct method for conversion 195.2(0) implies 1st three marks	N11a
1		Their 195.2 × 1.12 OR 195.2 × 0.12 or 23.42(4)	OE Any full correct method for percentage or percentage increase FT their 195.2 from an attempt to find median and work with proportion	N6a
1		[(£)218.62 or (£)218.63	CAO Must include correct money format (2dp)	M13a

Alternative method 6 – Working in US dollars: median then foreign exchange then percentage then proportion

1		3.84, 3.86, 3.86, 3.90, 4.10 …. or 5.73, 4.6(0), 4.54, 4.10, 3.90 … OR (3.90 + 4.10) ÷ 2	OE Any full correct method to find median	H23a
1		($)4(.00)	CAO median 4 implies 1st mark	H23a
1		Their 4 × 0.8 or (£)3.2(0)	OE Any full correct method to work out cost in pounds Their 4 must be in the range [3.84, 5.73] 3.2 implies 1st two marks	N11a
1		Their 3.2 × 1.12 or 3.58(4) OR their 3.2 × 0.12 or 0.38(4)	OE Any full correct method for percentage or percentage increase Their 3.28(05) but come from an attempt to find median and to work out cost in pounds 3.67(416) implies 1st three marks	N6a
1		4148 ÷ 68 × their 3.58(4)	OE Any full correct method to work cost of fuel in US dollars. FT their 3.58(4) from correct method to find percentage increase using their values	N11a
1		(£)218.38 OR (£)218.62 or (£)218.63	CAO Must include correct money format (2dp) 218.38 from 4148 ÷ 68 × their 3.58 218.62 from 4148 ÷ 68 × their 3.584	M13a

Alternative method 7 – Working in pounds: median then % then proportion then foreign exchange

1		Any 2 values converted to £: 4.54 × 0.8 or 3.63(2) 4.10 × 0.8 or 3.28 3.86 × 0.8 or 3.08(8) or 3.09 3.90 × 0.8 or 3.12 3.84 × 0.8 or 3.07(2) 4.6 × 0.8 or 3.68 5.73 × 0.8 or 4.58(4)	OE Any correct method to convert a pair of values into £	N11a
1		eg 3.07(2), 3.08(8) or 3.09, 3.08(8) or 3.09, 3.12, 3.28… or 4.58(4), 3.68, 3.63(2), 3.28, 3.12… OR (3.12 + 3.28) ÷ 2	OE Any full correct method to find median. FT their values from correct method to convert currency Allow any correctly rounded or truncated values to at least 2 dp	H23a
1		(£)3.2(0)	CAO FT their rounded or truncated values from correct methods to convert currency and to find median 3.28(05) implies 1st two marks	H23a

	1		Their 3.2 × 1.12 or 3.58(4) OR their 3.2 × 0.12 or 0.38(4)	OE Any full correct method for percentage increase or percentage Their 3.2 must come from an attempt to find median and to work out cost in pounds 3.58(4) or 0.38(4) implies 1st three marks	N6a
	1		4000 ÷ 68 × their 3.67(416)	OE Any full correct method to work cost of fuel in US dollars. FT their 3.58(4) from correct method to find percentage increase using their values	N11a
	1		(£)218.38 OR (£)218.62 or (£)218.63	CAO Must include correct money format (2dp) 218.38 from 4148 ÷ 68 × their 3.58 218.62 from 4148 ÷ 68 × their 3.584	M13a
2 (d)	3	PS	565(.2) (hours)	Award 3 marks if correct answer given from correct methods and accurate values If working seen	
	1		3.14 × 15 × 15 × 40 or 28 260 (cm^3)	OE Any full correct method to find volume of cylinder. OE consistent units. Accept [28 260, 28 274.334] from use of π button	M17a
	1		Their 28 260 ÷ 1000 × 20	OE Any full correct method FT their 28 260 from correct method to find volume of cylinder	N11a
	1		565(.2) (hours)	CAO Accept [565, 565.5] from use of π button Ignore any attempt at time conversion once 565(.2) seen	M17a
2 (e)	1	UPS	4000 (m)	CAO	M18a

Q	Marks	UPS / PS	Process and Answer	Additional or Alternative Evidence (with guidance)	SC
Activity 3:	**Private tutor**			**(Calculator Test)**	
3 (a)	**2**	**UPS**	92(%)	Award 2 marks if correct answer given from correct methods and accurate values If working seen	
	1		$\frac{161}{175} \times 100$	OE Any full correct method to express one quantity as a percentage of another × 100 may be implied by their answer	N5b
	1		92(%)	CAO	N5b
3 (b)	**5**	**PS**	See below		
3 (b) (i)	1		Scatter diagram completed with an appropriate line of best fit.	Line must go through (1, [39,47]) and (12, [86,94]) Examiners can extend line	H28
3 (b) (ii)	1		[6.6, 8.2]	Number of hours at 70% identified correctly. If line of best fit attempted, FT ± 0.5 minor gridline reading from their line If no line attempted, values in range imply mark in 3b (i)	H28
	1		Their [6.6, 8.2] × 1.18 or [7.788, 9.676] OR their [6.6, 8.2] × 0.18 or [1.188, 1.476]	OE Any full correct method to find percentage increase or percentage of their [6.6, 8.2] Award mark if [6.6, 8.2] has been rounded up to nearest hour Allow rounded up or down value for increased number of lessons Do not award if percentage is applied to any cost calculated from × 35	N6a
	1		Their 7 × 35 OR Their 8 × 35 OR Their 9 × 35 OR Their 10 × 35	FT their [7.788, 9.676] after a correct method for percentage increase Calculation must be a whole number correctly rounded/truncated Allow if they have used between [1, 12] × 1.18 clearly shown in previous mark and rounded/truncated Award 4th mark only for their [6.6, 8.2] rounded up to nearest whole number × 35 without first finding percentage increase	M15
	1		(£)245 or (£)280 or (£)315 or (£)350	CAO Only award if a whole number of hours used in 4th mark. Award this mark only if (£)245 or (£)280 or (£)315 or (£)350 seen without working. Only award if [6.6, 8.2] was NOT rounded up to nearest whole number before percentage process and a whole number of hours was used in 4th mark	M13a
3 (c)	1	**UPS**	$\frac{12}{32}$ or $\frac{3}{8}$ or 37.5(%) or 0.375	CAO OE probability	H26

3 (d)	3	PS	See below		
	1		0.5 × 3.5 × 3 or 5.25	OE Any full correct method	M16b
	1		Their 5.25 ÷ 0.8 or 6.5(625)	OE Any full correct method to work with proportion FT their 5.25 from correct method 6.5(625) implies 1st mark	N11a
	1		6 (people)	CAO Award 1 mark only for 6 seen without working	N9b
3 (e)	2	UPS	(£)38.50	Award 2 marks if correct answer given from correct methods and accurate values If working seen	
	1		(25 × 2) + (35 × 10) + (45 × 7) + (55 × 1) OR 50 + 350 + 315 + 55 or 770 OR 38.5	OE Any correct method to find sum of midpoints multiplied by the frequencies Allow one error in midpoints	H24
	1		(£)38.50	CAO 2dp required	H24
3 (f)	2	PS	(3 , 1) and (3 , –3) OR (–5, 1) and (–5, –3)	Award 2 marks if correct answer given	
	1		(3 , 1) or (3 , –3) or (–5, 1) or (–5, –3)	Any correct pair of coordinates	M22b
	1		(3 , 1) and (3 , –3) OR (–5, 1) and (–5, –3)	CAO	M22b

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Activity 4:		Caravan		(Calculator Test)	
Q	**Marks**	**UPS / PS**	**Process and Answer**	**Additional or Alternative Evidence (with guidance)**	**SC**
4 (a)	**1**	**UPS**	1 145 000	CAO Ignore any commas or gaps	N1a
4 (b)	**2**	**UPS**	53.(9449…)(%) or 54(%)	Award 2 marks if correct answer given	
	1		$\frac{294}{545}$	CAO OE Fraction	H27
	1		53.(9449…)(%) or 54(%)	FT their fraction $\frac{a}{b}$ for $0 < \frac{a}{b} < 1$ Accept correctly rounded or truncated value	H27
4 (c)	**4**	**PS**	(£)860.80	Award 4 marks if correct answer given from correct methods and accurate values If working seen	
	1		25 000 × 1.02 × 1.02 × 1.02 OR 25 000 × 1.02³ OR 25 000 × 1.02 or 25 500 AND 25 500 × 1.02 or 26 010 AND 26 010 × 1.02 OR (25 000 × 1.02 × 1.02 × 1.02) − 25 000	OE Any full correct method to find amount in account or total amount of compound interest paid May be implied by 500 + 510 +520.2	M13b
	1		(£)26 530.2(0) OR 1530.2(0)	CAO 26 530.2 or 1530.2 implies 1st mark	M13b
	1		(31 695 − their 26 530.2) ÷ 6 or 860.8 OR (31 695 − 26 530.2 − their 1530.2) ÷ 6 or 860.8	OE Any full correct method to work with money FT their 26 530.2 or their 1530.2 from correct method for compound interest 860.8 implies 1st two marks	M13a
	1		(£)860.80	FT the correct answer to (31 695 − their 26 530.2) ÷ 6 or (31 659 − 26 530.2 − their 1530.2) ÷ 6 or 860.8 using correct money notation from correct method for compound interest. Answer must have 2dp	M13a
4 (d)	**2**	**PS**	1900 (kg)	Award 2 marks if correct answer given from correct methods and accurate values if working seen	
	1		1615 ÷ 0.85	OE Any full correct method to find weight of car	N6b
	1		1900 (kg)	CAO	N6b

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4 (e)	**2**	**UPS**	11.7(593)(m)	Award 2 marks if correct answer given from correct methods and accurate values if working seen	
	1		3.14 × 7.49 (÷ 2) or 23.5186 (m)	OE Any full correct method to find circumference of a circle or semi-circle Accept [23.5, 23.531] (m) from use of π button and/or rounding	M16a
	1		11.7(593)(m)	CAO Accept [11.75, 11.8] from correct method and use of π button and/or rounding Accept 12 from rounding of [11.75, 11.8] seen	M16a
4 (f)	**4**	**PS**	Yes AND 2.36(17…) OR Yes AND 7872(.36…) AND 8000	Award 4 marks if correct answer given from correct methods and accurate values if working seen	
	1		7.49 × 2.45 × 2.6 × 165 or 7872(.3645) OR 0.0003	OE Any correct method to substitute values	N3
	1		Their 7872(.3645) × (0.3 ÷ 1000) OR 2.4 ÷ (0.3 ÷ 1000)	OE Any correct method to follow order of precedence of operators FT their 7872(.3645) from correct method Accept any correct rounding of their 7872.3645	N12
	1		2.36(170…) OR 8000	CAO implies 1st two marks FT their correctly rounded value of 7872.3645 Accept 2.36 seen rounded to 2.4	N12
	1		Yes AND 2.36(17…) OR Yes AND 7872(.36) AND 8000	OE Yes supported by correct working FT their decision from correct substitution and use of formula if seen Accept 2.4 rounded from 2.36 seen	N9a