

Mark Scheme (Results)

July 2014

Pearson Edexcel Functional Skills Mathematics Level 2 (FSM02)

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Guidance for Marking Functional Mathematics Papers

General

- All candidates must receive the same treatment. You must mark the first candidate in exactly the same way as you mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- All the marks on the mark scheme are designed to be awarded. You should always award full marks if deserved, i.e. if the answer matches the mark scheme. You should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.

Applying the Mark Scheme

• The mark scheme has a column for **Process** and a column for **Evidence**. In most questions the majority of marks are awarded for the process the candidate uses to reach an answer. The evidence column shows the most likely examples you will see:

if the candidate gives different evidence for the process, you should award the mark(s).

- **Finding 'the answer'**: in written papers, the demand (question) box should always be checked as candidates often write their 'final' answer or decision there. Some questions require the candidate to give a clear statement of the answer or make a decision, in addition to working. These are always clear in the mark scheme.
- If working is **crossed out and still legible**, then it should be marked, as long as it has not been replaced by alternative work.
- If there is a **choice of methods** shown, then marks should be awarded for the 'best' answer.
- A suspected **misread** may still gain process marks.

- It may be appropriate to **ignore subsequent work** (isw) when the candidate's additional work does not change the meaning of their answer. You are less likely to see instances of this in functional mathematics.
- You will often see correct working followed by an incorrect decision, showing that the candidate can calculate but does not understand the demand of the functional question. The mark scheme will make clear how to mark these questions.
- **Transcription** errors occur when the candidate presents a correct answer in working, and writes it incorrectly on the answer line; mark the better answer.
- Follow through marks must only be awarded when explicitly allowed in the mark scheme. Where the process uses the candidate's answer from a previous step, this is clearly shown. Speech marks are used to show that previously incorrect numerical work is being followed through, for example '240' means their 240.
- Marks can usually be awarded where **units** are not shown. Where units, including money, are required this will be stated explicitly. For example, 5(m) or (£)256.4 indicate that the units do not have to be stated for the mark to be awarded.
 - Correct money notation indicates that the answer, in money, must have correct notation to gain the mark. This means that money should be shown as £ or p, with the decimal point correct and 2 decimal places if appropriate.
 e.g. if the question working led to £12÷5,

Mark as correct: £2.40 240p £2.40p Mark as incorrect: £2.4 2.40p £240p 2.4 2.40 240

- Candidates may present their answers or working in many **equivalent** ways. This is denoted **o.e.** in the mark scheme. Repeated addition for multiplication and repeated subtraction for division are common alternative approaches. The mark scheme will specify the minimum required to award these marks.
- A range of answers is often allowed :
 - [12.5,105] is the inclusive closed interval
 - (12.5,105) is the exclusive open interval

- **Parts of questions**: because most FS questions are unstructured and open, you should be prepared to award marks for answers seen in later parts of a question, even if not explicit in the expected part.
- Discuss any queries with your Team Leader

Graphs

The mark schemes for most graph questions have this structure:

Process		Evidence
Appropriate graph or chart –	1	1 of
(e.g. bar, stick, line graph,)	or	linear scale(s), labels, plotting (2mm tolerance)
	2	2 of
	or	linear scale(s), labels, plotting (2mm tolerance)
	3	all of
		linear scale(s), labels, plotting (2mm tolerance)

The mark scheme will explain what is appropriate for the data being plotted.

A linear scale must be linear in the range where data is plotted, whether or not it is broken, whether or not 0 is shown, whether or not the scale is shown as broken. Thus a graph that is 'fit for purpose' in that the data is displayed clearly and values can be read, will gain credit.

The minimum requirements for **labels** will be given, but you should give credit if a title is given which makes the label obvious.

Plotting must be correct for the candidate's scale. Award the mark for plotting if you can read the values clearly, even if the scale itself is not linear.

The mark schemes for **Data Collection Sheets** refer to **input opportunities** and to **efficient input opportunities**. When a candidate gives an input opportunity, it is likely to be an empty cell in a table, it may be an instruction to 'circle your choice', or it may require writing in the data in words. These become efficient, for example, if there is a well-structured 2-way table, or the input is a tick or a tally rather than a written list.

Question	Skills Standard	Process	Mark	Mark Grid	Evidence
Q1a	R1	Works out difference	1or	A	49.95 - 33.56 (=16.39) OR 2 × 49.95 - 2 × 33.56 (=32.78) OR 49.95 ÷ 3 or 0.33 × 49.95 (=16.65)
	A4	Works with fraction	2 or	AB	49.95 ÷ 3 (=16.65)) and 49.95 – 33.56 (=16.39) OR '16.39'÷ 49.95 (=0.32(8)) OR '32.78'÷ (2 × 49.95) (=0.32(8)) OR 2 × 49.95 ÷ 3 (=33.3) OR 49.95 – '16.65' (=33.3) OR 33.56 + '16.65' (=50.21) OR '16.39' × 3 (=49.17)
	17	Decision from correct figures	3	ABC	No and 0.32(8) oe and 0.33(3) oe OR No and (\$)16.39 and (\$)16.65 OR No and (\$)32.78 and (\$)33.3(0) OR No and (\$)50.21 OR No and (\$)49.17

Section A: America

Question	Skills Standard	Process	Mark	Mark Grid	Evidence
Q1b	A4	Begins to substitute into formula	1 or	D	65 - 32 (=33) OR $16 \times 9 (=144) OR$ $16 \div 5 (=3.2) OR$ $16 \times \frac{9}{5} oe (=28.8)$
	R1	Full process for substitution	2 or	DE	$33' \times \frac{5}{9} (=18.3)$ OR
	I7	Decision from correct figures	3	DEF	'33' × 0.5(5) OR '28.8' + 32 (=60.8) Williamsburg AND [18, 18.48] (°C) OR 60.8(°F)
	1	Total marks for question	6	1	

Question	Skills	Process	Mark	Mark	Evidence
	Standard			Grid	
Q2	R3	Process to convert currency or convert	1 or	G	Eg. 3.15 ÷ 1.6 (=1.96875) OR 1.37 × 1.6 (=2.192) OR
		between litres and gallons			$3.15 \div 3.875 (=0.8129)$ OR $1.37 \times 3.875 (=5.3)$
					NB. Allow use of 4 for 3.875
	A4	Process to convert currency and convert	2 or	GH	Eg. '1.96875' ÷ 3.875 (=(£)0.508) OR
		between litres and gallons			'2.192' × 3.875 (=(\$)8.494) OR
					'0.8129' ÷ 1.6 (=(£)0.508) OR
					'5.30' × 1.6 (=(\$)8.494) OR
					1.37 × 3.875 (=5.3) and 3.15 ÷ 1.6 (=1.96875) OR
					1.37 × 1.6 (=2.192) and 3.15 ÷ 3.875 (=0.8129)
					NB. Allow use of 4 for 3.875
	I6	Finds correct figure to compare	3	GHJ	(\$)[8.49, 8.50]
					(£)[0.5, 0.51] OR
					(£)[5.3, 5.31] and (£)[1.96, 1.97] OR
					(\$)[2.1, 2.2] and (\$)[0.81, 0.82]
	R2	Process to use given scale factor	1 or	K	'(£)0.508' × 2 (=(£)1.016) OR (£)1.37 ÷ 2 (=(£)0.68) OR
					'(\$)8.494' ÷ 2 (=(\$)4.24) OR (\$)3.15 × 2 (=(\$)6.3) OR
					'8.494' ÷ 3.15(=2.6965) OR
					'(£)1.96' × 2 (=3.9) OR
					'5.3'÷ '1.96' (=2.6965) OR '2.1' ÷ '0.81' (=2.6965)
	A4	Correct figures	2	KL	(£)[1.01, 1.02] OR
					$(\pounds)[0.68, 0.69]$ and $(\pounds)[0.5, 0.51]$ OR
					(\$)[4.24, 4.25] OR
					(\$)6.3 and (\$)[8.48, 8.50] OR
					[2.6, 2.7] (times more) OR
					(£)[3.92, 3.94] and (£)[5.3, 5.31]
					NB. Working could be in pence or pounds / cents or dollars
	I7	Correct decision from their figures	1	М	Yes ft. their figures provided marks H and K awarded OR
		provided marks H and K awarded			Yes with (\$)[8.49, 8.50] and eg 'more than double'
		Total marks for question	6		

Q3	R1	Process to find time for drive to museum	1	N	140 ÷ 60 (=2.333) accept 2h 33 mins OR 140 mins
	A4	Converts between hours and minutes	1	Р	E.g. 2 hr 20 mins May be seen in subsequent working or correct final answer
	A4	Process to find total time or starts to find leaving time	1 or	Q	subtracts at least two times from 15:30 OR adds two times to a start time OR '2:20' + 3 + 0:45 (=6h 5min) (award N and P if 6h 5min seen)
	I6	Correct leaving time	2	QR	09:25(am) oe Award full marks for correct answer
		Total marks for question	4		

Section B: I	Book shop				
Q4	R1	Begins to make scale drawing	1 or	А	Two of : Right-angled triangle Isosceles triangle One side adjacent to right angle 5 cm
	Ι7	Correct scale drawing	2	AB	Right-angled triangle with two 5 cm sides adjacent to right angle
	A4	Finds length of longest side	1	C	[6.9, 7.3] (cm) (can be implied by [138, 146]) OR ft. from their diagram
	R3	Starts process to find figures to compare	1 or	D	$20 \times `7.1' (=142) \text{ OR}$ $60 \times 2 (=120) \text{ OR}$ $60 \div 20 (=3) \text{ OR}$ Correct Pythagoras statement (with [6.9, 7.3] or [138, 146]) as far as square and add
	A4	Complete process	2 or	DE	'142' ÷ 2 (=71) OR 20 × '7.1' (=142) and 60 × 2 (=120) OR '120' ÷ 20 (=6) OR '3' × 2(=6) OR Correct Pythagoras statement (with [6.9, 7.3] or [138, 146]) as far as square, add and square root
	16	Decision with correct figures	3	DEF	Yes and [69, 71] (cm) (per chair) OR Yes and [138, 146] (cm) and 120(cm) Yes and [6.9, 7.3] (cm) and 6 (cm)
		Total marks for question	6		

Q5aR2Process to find number of tickets for sale Completes process to find amount to be charged1G $450 - 4 \times 20 (=370)$ A4Completes process to find amount to be charged1 orH $(725 + 260) \div `370' (=2.6621)$ 16Correct figure with correct money notation2HJ $\pounds[2.67, 2.70]$ with correct money notationA5Shows a check1KAny reverse calculation OR Shows a profitQ5bA4Uses consistent units1LE.g. 1500 ml or 0.2 litres May be seen in subsequent working or correct final answer $200 \times 450(=90000)$ OR $`1500' (=75000)$ OR $`1500' = 200 (=7.5)$ A4Full process to find figures to compare2 orMN $^{90000'} + 1500' (=60)$ OR $`7500' + 200(=375)$ OR $`7500' + 200(=375)$ OR $`7500' + 350(=66)$ OR $`7.5' \times 50 (=375)$ I6Correct decision with correct figures3MNPNo and 60 (bottles needed) OR No and 75 and 90 (litres) OR No and 375 (glasses) OR No and 1166, 1671 ml) OR 15 litres more needed OR	Question	Skills	Process	Mark	Mark	Evidence
A4sale Completes process to find amount to be charged1 orH $(725 + 260) + `370' (=2.6621)$ 16Correct figure with correct money notation2HJ $f[2.67, 2.70]$ with correct money notationA5Shows a check1KAny reverse calculation OR Estimation OR Shows a profitQ5bA4Uses consistent units1LE.g. 1500 ml or 0.2 litres May be seen in subsequent working or correct final answer $200 \times 450(=90000)$ OR $`1500' (=7500)$ OR $`1500' = 200 (=7.5)$ A4Full process to work with total amount of orange1 orM`90000' + `1500'(=60) OR $`1500' (=7500)$ and $200 \times 450(=90000)$ OR $`1500' + 200 (=7.5)$ A4Full process to find figures to compare2 orMN`90000' + `1500'(=60) OR $`1500' (=7500)$ and $200 \times 450(=90000)$ OR $`7500' + 200 (=7.5)$ I6Correct decision with correct figures3MNPNo and 60 (bottles needed) OR No and 750 and 9000 (ml) OR No and 750 and 9000 (ml) OR No and 750 and 900 (itres) OR No and 750 (glasses) OR No and 1166, 1671 ml) OR 15 litres more needed OR		Standard			Grid	
I6 Correct figure with correct money notation 2 HJ £[2.67, 2.70] with correct money notation A5 Shows a check 1 K Any reverse calculation OR Estimation OR Shows a profit Q5b A4 Uses consistent units 1 L E.g. 1500 ml or 0.2 litres May be seen in subsequent working or correct final answer 200 × 450(=90000) OR 50 × 1500'(=75000) OR 50 × 1500'(=75000) OR 1500' ÷ 200 (=7.5) A4 Full process to find figures to compare 2 or MN *90000' ÷ *1500'(=60) OR 50 × *1500'(=75000) and 200 × 450(=90000) OR '75000' ÷ 200(=375) OR '75000' ÷ 450(=166) OR '7.5' × 50 (=375) I6 Correct decision with correct figures 3 MNP No and 60 (bottles needed) OR No and 7500 and 90000 (ml) OR No and 7500 and 90000 (ml) OR No and 75 (glasses) OR No and 375 (glasses) OR No and 16, 167] ml) OR	Q5a	R2		1	G	450 - 4×20 (=370)
16 Correct figure with correct money notation 2 HJ £[2.67, 2.70] with correct money notation A5 Shows a check 1 K Any reverse calculation OR Estimation OR Shows a profit Q5b A4 Uses consistent units 1 L E.g. 1500 ml or 0.2 litres May be seen in subsequent working or correct final answer 200 × 450(=90000) OR 50 × '1500'(=75000) OR '1500' = 75000) OR '1500' = 75000) OR '1500' = 75000) OR '1500' = 75000 and 200 × 450(=90000) OR '1500' = 75000 and 200 × 450(=90000) OR '1500' = 200(=7.5) A4 Full process to find figures to compare 2 or MN '90000' ÷ '1500'(=60) OR 50 × '1500' = 600 OR '1500' = 450(=90000) OR '1500' = 450(=90000) OR '1500' = 450(=90000) OR '1500' = 450(=90000) OR '1500' = 450(=166) OR '7.5' × 50 (=375) I6 Correct decision with correct figures 3 MNP No and 60 (bottles needed) OR No and 75 and 90 (litres) OR No and 75 (glasses) OR No and 166, 167] ml) OR 15 litres more needed OR		A4		1 or	Н	(725 + 260) ÷ '370' (=2.6621)
Q5b A4 Uses consistent units 1 L Estimation OR Shows a profit Q5b A4 Uses consistent units 1 L E.g. 1500 ml or 0.2 litres May be seen in subsequent working or correct final answer 200 × 450(=90000) OR 50 × 1500'(=75000) OR '1500' ÷ 200 (=7.5) A4 Full process to find figures to compare 2 or MN '90000' + '1500'(=60) OR '50 × '1500'(=75000) and 200 × 450(=90000) OR '75000' + 200(=375) OR '75000' + 200(=375) OR '75000' + 450(=166) OR '7.5' × 50 (=375) I6 Correct decision with correct figures 3 MNP No and 60 (bottles needed) OR No and 75 and 900 (litres) OR No and 75 (glasses) OR No and 75 (glasses) OR No and 75 (glasses) OR		I6	Correct figure with correct money	2	HJ	£[2.67, 2.70] with correct money notation
R1 Process to work with total amount of orange 1 or M May be seen in subsequent working or correct final answer 200 × 450(=90000) OR 50 × 1500'(=75000) OR '1500' ÷ 200 (=7.5) A4 Full process to find figures to compare 2 or MN '90000' ÷ '1500'(=60) OR 50 × 1500'(=75000) and 200 × 450(=90000) OR '75000' ÷ 200(=375) OR '75000' ÷ 200(=375) OR '75000' ÷ 450(=166) OR '7.5' × 50 (=375) I6 Correct decision with correct figures 3 MNP No and 60 (bottles needed) OR No and 75000 and 90000 (ml) OR No and 75000 and 90000 (ml) OR No and 375 (glasses) OR No and 375 (glasses) OR No and 516 (lottes) OR No and 375 (glasses) OR No and 166 (lottes) OR No and 516 (lottes) O		A5	Shows a check	1	К	Estimation OR
R1Process to work with total amount of orange1 orM $200 \times 450(=90000)$ OR $50 \times `1500`(=75000)$ OR $`1500` + 200 (=7.5)$ A4Full process to find figures to compare2 orMN'90000' ÷ '1500'(=60) OR $50 \times `1500'(=75000)$ and $200 \times 450(=90000)$ OR $`75000' ÷ 200(=375)$ OR $`75000' ÷ 450(=166)$ OR $`7.5' \times 50 (=375)$ I6Correct decision with correct figures3MNPNo and 60 (bottles needed) OR No and 75 on and 90000 (ml) OR No and 75 (glasses) OR No and [166, 167] ml) OR 15 litres more needed OR	Q5b	A4	Uses consistent units	1	L	
I6Correct decision with correct figures3MNPNo and 60 (bottles needed) OR No and 75000 (ml) OR 		R1		1 or	М	200 × 450(=90000) OR 50 × '1500'(=75000) OR
No and 75000 and 90000 (ml) OR No and 75 and 90 (litres) OR No and 375 (glasses) OR No and [166, 167] ml) OR 15 litres more needed OR		A4	Full process to find figures to compare	2 or	MN	50 × '1500'(=75000) and 200 × 450(=90000) OR '75000' ÷ 200(=375) OR '75000' ÷ 450(=166) OR
10 more bottles needed		16	Correct decision with correct figures	3	MNP	No and 75000 and 90000 (ml) OR No and 75 and 90 (litres) OR No and 375 (glasses) OR No and [166, 167] ml) OR
Total marks for question 8			Total marks for question	8		

Q6	R3 I7	Work with probability or chance Compares probabilities or number of people	1 or 2	QQR	$\frac{6}{450} \text{ OR } \frac{7}{450} \text{ OR } 450 \div 60 (=7.5) \text{ OR} \\ 6 \times 60 (=360) \text{ OR} \\ 450 \div 6 (=75) \text{ OR} \\ 6 \text{ in } 450 \text{ or } 6 \text{ out of } 450 \text{ or } 6:450 \text{ or } 6:444 \\ \text{or } 7 \text{ in } 450 \text{ or } 7 \text{ out of } 450 \text{ oe} \\ \text{No and } \frac{1}{75} \text{ or } 0.0166 \text{ or } 1 \text{ in } 75 \text{ OR} \\ \text{No and } 7.5 (\text{people}) \text{ or } 8 (\text{people}) \text{ OR} \\ \text{No and } \frac{7}{450} \text{ or } 0.0133 \text{ OR} \\ \text{No and } 360 (\text{people}) \\ \end{array}$
		Total marks for question	2		

Section C	: Home	Maintenance
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Question	Skills	Process	Mark	Mark	Evidence
	Standard			Grid	
Q7a	R1	Works with percentage	1 or	А	0.2 × 525 oe (=105)
	A4	Find percentage increase	2 or	AB	'105' + 525 OR 1.2 × 525 oe
	I6	Correct figure	3	ABC	(£)630
Q7b	R1	Uses flow chart	1 or	D	1270 × 3 (=3810) OR 6104 ÷ 3 (=2034.6) OR 3502 ÷ 3 (=1167.3)
	A4	Correct figure	2	DE	3810 (BTUs) OR [2034, 2035] (cubic feet)
	Ι7	Decision from correct figures	1	F	Yes and 3810 OR Yes and [2034,2035]
		Total marks for question	6		

Q8R1Uses given information1G $817/+5/41+2033+8400$ (=24351) OR $817/+5/41+2033+8400$ (=24351) OR $8177+3(=2725.6.)$ OR $8400+3(=2800)$ OR $1352 \times 3 (=6056)$ A4Works with mean average1 orH $*24351'+12$ (=2029.25) OR $1352 \times 3 (=4056)$ A4Works with mean average1 orH $*24351'+12$ (=2029.25) OR $1352 \times 3 (=4056)$ I6Correct figures2HJ $2029(.25)$ OR 16224 and $24351' + 4(=6087.75)$ and $1352 \times 3(=4056)$ OR 4056 and comparison with 1 quarterI6Correct figures2HJ $2029(.25)$ OR 16224 and 24351 OR 16224 and 24351 OR $1913, 1914]$ and [677, 678] and 2800 OR 4056 and comparison with 2 quartersI7Decision ft from their figures1KComparison (ft if G and H scored) Eg. Mrs Smith used more than the mean average for her area OR Mrs Smith used less in July to Sept and more in all the other quarters OR compares each quarter separately OR 4056 and comparison with 4 quarters	09	D 1		1	C	0177 + 5741 + 2022 + 0400 (24251) OD
1352 × 12 (=16224) OR1352 × 12 (=16224) OR8177 ÷ 3(=2725.6) and 5741 ÷ 3(=1913.6) and2033 ÷ 3(=677.6) and 8400 ÷ 3(=2800) OR'24351' ÷ 4(=6087.75) and 1352 × 3(=4056) OR4056 and comparison with 1 quarter16Correct figures2HJ2029(.25) OR16224 and 24351 OR[2725, 2726] and [1913, 1914] and [677, 678] and 2800 OR6087.75 and 4056 OR4056 and comparison with 2 quarters17Decision ft from their figures1KComparison (ft if G and H scored)Eg. Mrs Smith used more than the mean average for her area ORMrs Smith used less in July to Sept and more in all the other quartersORcompares each quarter separately OR	Q8	R1	Uses given information	I	G	5741 ÷ 3(=1913.6) OR 2033 ÷ 3(=677.6) OR 8400 ÷ 3(=2800) OR
I7Decision ft from their figures1KComparison (ft if G and H scored) Eg. Mrs Smith used more than the mean average for her area OR Mrs Smith used less in July to Sept and more in all the other quarters OR compares each quarter separately OR		A4	Works with mean average	1 or	Н	$1352 \times 12 (=16224)$ OR $8177 \div 3(=2725.6)$ and $5741 \div 3(=1913.6)$ and $2033 \div 3(=677.6)$ and $8400 \div 3(=2800)$ OR '24351' $\div 4(=6087.75)$ and $1352 \times 3(=4056)$ OR
Eg. Mrs Smith used more than the mean average for her area OR Mrs Smith used less in July to Sept and more in all the other quarters OR compares each quarter separately OR		16	Correct figures	2	HJ	16224 and 24351 OR [2725, 2726] and [1913, 1914] and [677, 678] and 2800 OR 6087.75 and 4056 OR
		I7	Decision ft from their figures	1	K	Eg. Mrs Smith used more than the mean average for her area OR Mrs Smith used less in July to Sept and more in all the other quarters OR compares each quarter separately OR
Total marks for question 4		1	Total marks for question	4	1	1

Question	Skills Standard	Process	Mark	Mark Grid	Evidence
Q9	A4	Process to find a missing length	1	L	2.1 + 1.9(=4) OR 3.5 - 1.7(=1.8)
	R2	Process to start to find area	1 or	М	2.1 × 3.5 (=7.35) OR 1.9× '1.8' (=3.42) OR '4' × '1.8' (=7.2) OR 2.1 × 1.7 (=3.57) OR 3.5 × '4' (=14) OR 1.7 × 1.9 (=3.23)
	A4	Complete process to find area	2 or	MN	[°] 7.35 [°] + [°] 3.42 [°] (=10.77) OR [°] 7.2 [°] + [°] 3.57 [°] (=10.77) OR [°] 14 [°] - [°] 3.23 [°] (=10.77)
	16	Correct area	3	MNP	10.77 (m ²) OR 7.35 and 3.42 OR 7.2 and 3.57 OR 14 and 3.23
	R3	Uses coverage for any relevant area	1 or	Q	E.g. '10.77' \div 0.88 (=12.2) must come from an area method OR 15 \times 0.88(=13.2)
	16	Decision and correct figure	2	QR	Yes and [12.2, 13] (packs) OR Yes and 13.2 (m ²) and 10.77 (m ²)
		Total marks for question	6	I	

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