

Mark Scheme (Results) November 2010

Functional Skills

Functional Skills Mathematics Level 1 FSM01

**FUNCTIONAL SKILLS (MATHEMATICS)
MARK SCHEME – LEVEL 1 NOVEMBER 2010**

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Question	Evidence	Mark	Mark Grid	Notes
Q1 (a)	interprets rule correctly and uses 3 calculates required width	1 or 2	A AB	$3 \times 3 \div 2$ 4.5
Q1 (b)	Gives valid reason for decision (ft from part a)	1	C	e.g. no, they are too narrow
Total marks for question		3		
Q2	understands the problem, considers criteria to place sofa	1 or 2	D DE	2 of: correct width, correct length, suitable position for sofa Sofa is 2cm by 4cm all of : correct width, correct length, suitable position for sofa
	identifies and obtains necessary info to solve problem of table placement	1 or 2	F FG	2 of: correct width, correct length, suitable position for table Table is 2cm by 3cm all of : correct width, correct length, suitable position for table
Total marks for question		4		

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Question	Evidence	Mark	Mark Grid	Notes
Q3	Works with months or weeks	1	H	TS $98 \times 12 (=1176)$ or FP $72 \times 12 (=864)$ or HS $52 \times 13 (=676)$
	Adds deposit	1	J	FP '864'+200=(1064) or HS '676'+350(=1026)
	Finds total costs	1	K	All of 1176 and 1064 and 1026
	comparing costs of credit plans	1 or	L	compares two using own figures and makes correct decision
		2	LM	compares all three using own figures and makes correct decision
Total marks for question		5		
Q4	identifies correct number of hours	1	N	6 seen, or $6 \times 15 (=90)$ or 122.4(0)
	Finds costs	1 or	P	'6' $\times 15 (=90)$ or 32.4(0) or 122.4(0). '6' $\neq 1$
		2 or	PQ	At least two of : '90', 32.4(0), '122.4(0)'
	Finds total	3	PQR	£122.40 cao, correct money notation
Total marks for question		4		

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Question	Evidence	Mark	Mark Grid	Notes
Q5 (a)	interprets information supplied and describes probability in words	1	A	eg impossible or no chance or cannot happen: and shop is not open do not accept unlikely, not likely
Q5 (b)	Interprets the given information to produce a data collection sheet organised solution	1 or	B	1 of : sandwich types, bread types, efficient input opportunities, or headings alone and input opportunities 2 of : sandwich types, bread types, efficient input opportunities, 3 of : sandwich types, bread types, efficient input opportunities,
		2 or	BC	
		3	BCD	
Q5 (c)	Attempts to calculate hours per week or pay per day	1 or	E	Time calculation $\times 6$ ($= '2.5' \times 6 = 15$) or time calculation $\times 5$ ($= '2.5' \times 5 = 12.5$) where '2.5' = [1.5, 3.5] 75
	Finds correct total pay	2	EF	
Total marks for question		6		
Q6	Works with number of sandwiches per week or cost per day Works towards total cost finds correct total costs	1 or	G	$6 \times 20 (=120)$ or $6 \times 40 (=240)$ or $20 \times 58 (=1160$ or $11.6)$ or $40 \times 51 (=2040$ or $20.4)$ $6 \times 20 \times 58 (=6960$ or $69.6)$ or $6 \times 40 \times 51 (=12240$ or $122.4)$ 192 or (122.4(0) and 69.6(0))
		2 or	GH	
		3	GHJ	
Total marks for question		3		

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Question	Evidence	Mark	Mark Grid	Notes
Q7 (a)	Appropriate graph would be bar or line graph	1 or 2 or 3	K KL KLM	one of: plotting, linear scale, labels two of: plotting, linear scale, labels three of: plotting, linear scale, labels (2mm tolerance for plotting)
Q7 (b)	Writes any simple relevant statement	1	N	Yes, profits are increasing.
Total marks for question		4		
Q8	interprets ratio information correctly	1 or	P	e.g. 1/6 or 5/6 seen or 6 parts seen or 2 parts orange or 10 parts water
	applies ratio correctly	2 or	PQ	e.g. $1/6 \times 12$ or $5/6 \times 12$ or [6 parts = 12 litres] or 2 parts orange and 10 parts water.
	finds correct quantities	3	PQR	2 litres and 10 litres
Total marks for question		3		

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Question	Evidence	Mark	Mark Grid	Notes
Q9 (a)	interprets table extracts distances between 3 given places	1 or	A	2.5 and 1.5 seen (may be circled in table)
	interprets problem to find either route distance given or distance needed	2 or	AB	2.5+ 1.5(=4) or 10 – ‘4’ It must be clear where ‘4’ comes from e.g. 2.5 and 1.5 may be circled in table or 2+4 (=6)
	Finds solution	3	ABC	chooses Windmill from suitable working seen
Q9 (b)	understands problem and uses 500 in rule or begins reverse calc from 30	1 or	D	3×500 (=15or 1500) or 30–10 (=20)
	correct cost calculation or correct number of leaflets he can afford	2	DE	(£)25 or 2500(p) or (30–10)÷0.03=666.....
	compares and justifies decision	1	F	eg: yes it costs £25 he has £30 to spend or yes he has enough money to get more than 600 leaflets printed
Q9 (c)	interprets tally	1 or	G	6 or 13 or 22 seen
	coordinates both tables	2 or	GH	5.10 or 110 seen
		3	GHJ	128.1(0)
Total marks for Question		9		

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Q10	understands problem begins to prepare schedule	1 or	K	at least 2 correct times linked to activities or times or events seen in sequential order (allow one error or omission, for an error in time ft) all times linked to activities and either <ul style="list-style-type: none"> • not ordered sequentially or • one activity omitted or • one error in time (ft) all times correct and linked to activities and ordered sequentially
	improves schedule	2 or	KL	
	full schedule	3	KLM	
Total marks for question		3		

Question	Evidence	Mark	Mark Grid	Notes
Q11 (a)	interprets then extracts information	1	N	Table R
Q11 (b)	Works with time	1 or	P	$7 \times 10 = (70)$ or $8 \times 10 = (80)$ or $60 + 15 = (75)$ or 7.5 or $10 \div 1.25 (= 8 \text{ km/hour})$ Indicates the upper or lower bound. Lower: eg 70(mins) oe Upper: 80(mins) oe or 7.5(mins) do not credit speed (= 8 km/hour) states 8 minutes per km or Group D with valid working
	compares time.	2 or	PQ	
	Reaches decision from valid reason	3	PQR	
Total marks for question		4		

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