

**FUNCTIONAL SKILLS (MATHEMATICS)
MARK SCHEME – LEVEL 1 – SAM**

Question.	Evidence	Mark	Notes
Mid-Shire Council			
Q1	Interprets problem - two features	1 or	Two of: List of menu items, input opportunities (people or courses), headings.
	Three features	2 or	Three of: List of menu items, input opportunities (people or courses), headings.
	All four features	3	All of: List of menu items, input opportunities (people AND courses), headings. (NB: If data collection sheet includes orders for individuals, number of people needs to be correct.)
Total marks for this question		3	
Q2a	Distance between hedge and window	1 or	4 m is used
	Allowed hedge height	2	Correct allowed hedge height 3 m seen
Q2b	Action on hedge	1	The hedge should be lowered/cut or equivalent statement.
Q2c	Hedge sketch on plan	1 or	Two of: Correct length, correct width, correct position
		2	All three of: Correct length, correct width, correct position
Q2d	Calculation: ft from their (c)	1 or	Ft from their diagram "11" used in formula OR numerical method shown
		2	Ft from their diagram, appropriate method for height of hedge, 6.5 m
Total marks for question		7	

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Q3a	Interprets from table	1	23 is seen or implied
Q3b	Finds ratio	1 or	$\frac{1}{5}$ or $\frac{4}{5}$ oe is seen or implied
	Applies ratio	2	$\frac{1}{5} \times 250$ or $\frac{4}{5} \times 250$ seen or implied (50, 200 seen)
Q3c	Finds total tonnes	1 or	'50' \times 23 or '200' \times 23 seen or implied.
	Applies price to their answers	2 or	Ft from their (a) and (b) $71.95 \times '50' \times 23$ or $12.21 \times '200' \times 23$
	Price and total processes can be in either order		OR $72 \times '50' \times 23$ and $12 \times '200' \times 23$ Ft from their (a) and (b) Accept rounded answers for 71.95 and 12.21
	Decision	3	$\pounds 138000$ or better ($\pounds 138908.50$) OR accept $\pounds 140\ 000$ or better Ft from their (a) and (b)
Total marks for question		6	
Q4a	Attempts to find out how many days are needed	1 or	$62 \div 10$ or any method, eg how many lots of 10 in 62, 6 days only, 6.
	Considers rounding	2	7 days
Q4b		1	Appropriate reverse calculation oe
Total marks for question		3	

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Question	Evidence	Mark	Notes
Jobs			
Q5	Attempts salary in same time period	1 or	Attempts to put both in same time period, both in yearly or monthly period (accept weekly if consistent use of weeks in year or weeks in month) 1750×12 OR $24000 \div 12$ seen or implied
	Includes bonus	2 or	Applies bonus, “21000” $\times 1.2$ oe seen, or 1750×1.2
	States salary in same time period	3	Final amounts seen, 24000, 25200 OR 2000, 2100
	Includes, salary in same time period And B oe	1	Decision correct for their working, company or role stated
Total marks for question		4	
Q6 (a)	Explanation	1	Compares pay in the same time period, eg 1 day or multiple of 4 days
Q6 (b)	Interprets symbolism	1 or	Indication that number of days for each company found, OR total for each week seen or implied
	Incorporates pay Decision	2 or 3	$500 + (“5” \times 110)$ seen or implied States plan following from their working
Total marks for question		4	
Q7a	Completes table	1 or	30×27 seen or implied or 8.10 in table (or 137.80) or 8.20
	Partial calculation seen or implied	2 or 3	8.10 and 8.20 seen in table or ft correct table with .7 error or 137.80 All of 8.10, 8.20, and 137.80 seen in table
Q7b	Considers adjustments	1 or	$30(29 - 27)$ or 30×29 then recalculation
	Complete method shown States answer	2	Eg: £0.60 (60p) correct money units.
Total marks for question		5	

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Jan			
Q8	A schedule of shows	1	At least two shows with no time clashes
	Start times are not sufficient on their own to identify shows	1 or	At least two shows, with times, and exit from shows before 5pm
		2 or	At least three shows, with times, and exit from shows before 5pm
		3	All four shows (no more), with times, and exit from shows before 5pm and no clashes Example: SL: 12.15 – 12.50 W 1.30 – 2.05 H 3 – 3.45 T 4.15 – 4.35
Total marks for question		4	
Q9	Finds correct total per year for one package or approximates	1 or	One of 329.88, 324.51, 432 OR Appropriate approximation for two values
	Accept comparison in months if adjustments for one-off payments and P2 made		P1: $30 + (12 \times 24.99)$ OR Approximation method: $30 + 25 \times 12 = (330)$ P2: $15 + (15.12 \times 3) + (29.35 \times 9)$ OR Approximation method: $15 + (15 \times 3) + (30 \times 9) = 330$ P3: $36 \times 12 = (432)$
		2 or	Two of 329.88, 324.51, 432 OR Appropriate approximation for all three values
	Finds correct total per year for two packages or approximates	3	All Three: 329.88, 324.51, 432
	Totals per year for all packages	1 or	One comparison made. Incorrect figures allowed.
Compares two packages P2: Cheapest implies comparison	2	Comparisons made across all three options (correct figures) OR approximations with appropriate justifications for within package is cheapest.	
Total marks for question		5	

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Quest.	Evidence	Mark	Notes
Jan			
Q10a	Interprets tally Two features used	1 or 2 or	37 or 6 seen or implied. 370 or 160 or 180 or 400 or 150 seen or implied
	Accounts for all uses	3	$950 + 280 = 1230$ weekly
Q10b	Yearly water consumption Their $1230 \times [48,52]$ [59040, 63960]	1	Allow weeks in year from range 48 to 52 Ft from their (a)
	Per 1000 litres Their yearly is allowed	2	Per 1000 litres consumption figure
	Metered water cost $22 + 1.10 \times [59.04, 63.96]$	1 or	Must be a money answer [£86.94, £92.3]
	Decision made	2	A comparison is made or implied. A decision is made.
Total marks for question		7	