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Mark Scheme
Sample Assessment Material
Summer 2008

Level 2

Level 2 Functional Skills Mathematics

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LEVEL 2

No			Answer	Mark	Notes
1.1	(a)	£12000 + £5000 =	£17000	1	B1 cao
	(b)	£14000 + £7000 =	£21000	1	B1 cao
	(c)		£1000	1	B1 cao
	(d)	£29000 × .020 =	£5800	2	M1 A1
1.2		7 × 9 = 63 m^2 Graph: 63 → 720 (approx) 720 > 500 so OK	Yes with reasons	3	M1 7 × 9 (=63) M1 attempt to convert using graph A1 >500 stated and shown using evidence (dep on at least M1)
1.3	(a)	1677 ÷ 3 × 2 =	1118	1	B1 cao
	(b)	"1118" × £3.75 =	£4192.50	1	B1 ft
	(c)		£4200	1	B1 ft round to the nearest £100
1.4	(a)	£210000 ÷ 6 =	£35000	1	B1 cao
	(b)	£40000 × 6 =	£240000	2	M1 subs into formula £40000 = T/6 or processing shown: £40000 × 6 A1 cao
1.5	(a)	1677 – (683+471+139+45) = 1677 – 1338 =	339	1	B1 cao
	(b)	(683×2)+(471×1)+(139×-1)+(45×-2)= 1366+471-139-90 = 1608	1608	2	M1 correct processing using points eg sight of (683×2)+(471×1)+(139×-1)+(45×-2) A1 cao
	(c)	1608 ÷ 1338 =	Calculation	2	M1 "1608" ÷ "1338" A1 1.2 (or better)
	(d)		Reason	1	B1 eg "People are more likely to want the shop than they are to use it", "Both means are close to 1 so most people want the shop and will use it"
2.1	(a)	260 – 170 =	90	1	B1 cao
	(b)	178 − 78	100	1	B1 cao
	(c)	eg (170 × 178) + (90 × 100) = 30260 + 9000 eg (100 × 260) + (170 × 78) = 26000 + 13260	39260	2	M1 correct processing by dividing area up and identifying dimensions A1 cao

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2.2	(a)	£1600	2	M1 correct processing eg 2000 – 178 – 45 – 120 – 57 A1 cao
	(b)	$\frac{4}{5}$	2	M1 "$\frac{1600}{2000}$" A1 $\frac{4}{5}$ cao
2.3		D	1	B1 cao
2.4	(a)	45 × 30	1	B1 cao Accept 30 × 45
	(b)	45	2	M1 for conversion of 9m to 900cm A1 45 cao
	©	9	3	M1 correct processing to achieve 10% of 200 M1 for division of "220" by 25 (or 200÷25) A1 cao
	(d)	£400.50	2	M1 "9" × 44.5 A1 cao Accept 400.5
2.5		920	1	A1 cao
		161	1	A1 cao
		1081	1	A1 cao

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3.1			Rectangle 6×3.6	2	B1 rectangle length of 6 B1 rectangle width of 3.25 to 3.75 Accept rectangle any orientation
3.2	(a)		$\frac{2}{3}$	2	B2 for $\frac{2}{3}$ (B1 for $\frac{16}{24}$)
	(b)	(24-16)÷2= 8 ÷ 2 =	4 hours	2	M1 for process of (24-16)÷2 or 8÷2 A1 cao
3.3	(a)		Graph	3	B2 for all points plotted accurately (1/4 square tolerance) and joined (B1 points plotted & joined with no more than 2 errors; OR all points plotted accurately but not joined correctly.) B1 for months added to horizontal axis
	(b)		October	1	B1 cao
	(c)		March	1	B1 cao
	(d)		Rejection of mean	2	B2 for a full explanation which includes calculation of the mean with working, and comparison with 40.7 [mean=43.62…] (B1 method shown but no mean calculated, or mean shown but no comparison with 40.7)
	(e)		Median, with justification	2	B1 for stating the median B1 for justification eg 40.7 is the middle value

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3.4	(a)	0.53×360, 0.25×360, 0.22×360	191°, 90°, 79°	3	M1 evidence of method for at least one angle (could be implied by one correct angle of four on pie chart or in the table) A1 All three angles drawn ±2° tolerance, any order. B1 (dep on at least 1 angle drawn correctly, and exactly 4 sectors) for labels (flavour or frequency; initials will do) NB: Ignore the table if the pie chart provides the marks.
	(b)		% graph	2	B1 line drawn between 45% and 50% with correct shading. B1 line drawn at 90% with correct shading in the last rectangle.
	(c)		Reason	1	B1 sensible reason given eg "That's where the elephants spend most of their time."

Level 2 COVERAGE: assessment grid

Question	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	
Coverage															
1					x										
2	x	x	x	x	x	x	x	x	x	x					
3	x		x				x		x		x				
4			x					x		x		x			
5									x						
6				x											
7															
8		x				x									
9		x							x			x			
10													x	x	
11		x			x								x	x	
12					x								x		
13															

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