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Mark Scheme (Results)
Summer 2008

Functional Skills

Functional Skills Maths Level 2 (FM201/01)

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No			Answer	Mark	Notes
1.	(a)	£700,000+£327,500+2×£175,000	£1,377,500	1	B1 cao
	(b)	"£1377500"-£1309500	£68,000	1	B1 ft or cao. SC Award B1 in (b) for 1202500 in (a) followed by 56750 in (b)
2.	(a)	20 × 3 = 60	J Ferrero	1	B1 cao
	(b)	Eg Males more, females less	(Males) more (aces)	1	B1 oe
3.	(a)		140-145 mph	1	B1 cao
	(b)		180-190 km/h	1	B1 cao
4.	(a)		7	1	B1 cao
	(b)	R Gasquet R Nadal R Nadal	As opposite.	1	B1 cao Accept misspellings if unambiguous, or missing initials
	(c)		Reasoning	1	B1 Reasoning: eg other factors involved, probability only an estimate, the outcomes are not equally likely, tennis a game of skills, etc.
5.	(a)	2 × 36 = 72; 2 × 45 = 90 72 + 90 = 162; 200 – 162 =	£38	2	M1 for the complete process of 2×36, 2×45 then add, and subtract total from 200 A1 cao
	(b)	"38"/200	19/100	2	M1 for process of conversion to fraction "38"/200 (eg 119/200) A1 cao or ft if fully simplified if "38" < 200
	(c)	£200 ÷ 50 = 4 7 – 4 =	3	2	M1 for process of £200 ÷ 50 or sight of 4 A1 cao
6.	(a)	50 × 5 =	250 ml	1	B1 cao
	(b)	600 ÷ 6 = 100; × 5 = 500 OR 600 × 5 ÷ 6 etc.	100 ml 500 ml	2	M1 for process of 600 ÷ 6 or 600 × 5 or 250 × 2 or 100 seen (implied process) A1 for 100 & 500 SC Award B1 if 100, 500 wrong way around or one answer is given correctly.
	(c)	Water: 800 × 5 = 4000; +800 = 4800 4800 ÷ 1000 = 4.8	4.8 to 5 litres	2	M1 for 800 × 5 + 800 or for (800 × 5) ÷ 1000 or for 4800 or 4 seen A1 cao

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7.	(a)	London	1	B1 for London (West End)
	(b) 807 – 97	710	2	M1 process of identification of 807, 97 with link ie subtraction or "to" A1 710 cao
	(c) 210 × 100	£21000	1	B1 cao
	(d) 12 × 30 = 360; 360 × 97=	£34920	2	M1 process of finding area: 12×30 or ×97 or sight of 360 A1 cao
8.	(a) 200 ÷ 12 = 16.66	16	2	B3 for 11 and 16 OR B2 for 11 or 16 OR 16.66 and 11.76 OR
	(b) 200 ÷ 17 = 11.76	11	1	B1 for either 11.76 or 16.66 NB: accept answers 16.7 or 16.6 for 16.66, and 11.7 etc for 11.76
9.	(a) 900 ÷ 1000 =	0.9 m	1	B1 cao
	(b) Length: 2 + "0.9" + 2 + "0.9" + 2 = 7.8	Length 7.8 m	3	M1 process of showing a combination of at least one 2 and one "0.9"
	(c) Width: 1 + "0.9" + 1 = 2.9	Width 2.9 m		M1 process of showing the correct number of 1s and "0.9"s for the width A1 cao SC Award B2 for one answer correct
10.	(a) 35 ÷ 5 × 4, or 35 – 7	28	2	M1 for a complete process of ÷5 and ×4, or sight of 7 A1 cao
	(b)	20%	1	B1 cao
	(c)	7 h 45 min	1	B1 Accept 7 ¾ h 0 min; do NOT accept 7.75h or 7.45 h
	(d) 8 05+7 15+"7 45"+7 50+7 15=38h10min 38h10min – 5h =	33h 10min	3	M1 for the process of finding duration times (at least 2 correct from 5) M1 for accounting for lunch (at any stage in working) for all 5 days. A1 cao

No		Answer	Mark	Notes
11. (a)	(2.30+1.20+3.25+0.70+2.30)÷5 = 9.75÷5	£1.95	2	M1 process of adding amounts and ÷5 A1 cao
(b)		2/5	1	B1 2/5 or equivalent fraction, decimal, percentage
(c)		Reason	1	B1 for criticising the time period or suggesting sampling during the whole day
12.		Start 2(pm) Finish 5.30 (pm)	2	M1 process of identifying the times eg notes on diagrams, or for 1 answer given (implied process) A1 cao NB: throughout this question accept 24h times instead of 12 h times; condone missing am/pm.
13. (a)	£6.20 × 5 $\frac{1}{2}$ × 6	£204.60	2	M1 for the process of substitution with operators shown. Do not accept 5:30 for $5\frac{1}{2}$ A1 cao £204.6 gets M1 A0
(b)	£6.20 ÷ 2 = £3./10, £6.20 + £3.10	£9.30	1	B1 cao In this question penalise incorrect money notation once only.
14. (a)	180 ÷ 9	Teas 40 Coffees 140	2	M1 process of division by 9 (any stage) A1 both answers NB: for answer wrong way around award M1 (implied)
(b)		$\frac{2}{9}$ or "$\frac{40}{180}$"	1	B1 $\frac{2}{9}$ or "$\frac{40}{180}$" oe

No		Answer	Mark	Notes
15. (a)	£1.10+£1.50+2×£1.50	£5.60	2	M1 for the complete process shown or for an answer of £4.10 or £4.1 (implied partial process)
(b)	£8.40 × 12.5 ÷ 100 =	£1.05	2	A1 cao Award 1 mark only for £5.6 M1 for % process (×0.125 oe) shown or ÷2÷2÷2 A1 cao with correct rounding SC: award M1 (implied process) for £9.45
16. (a)	π × 10 × 10	314 – 315	2	M1 for process of finding area: π × 10 × 10 oe
(b)	(20 × 20) – "314"	85 – 86	2	A1 within range 314 – 315 M1 for process of finding 20×20 and of subtracting the area of the circle A1 within range 85-86 OR ft 400 – "(a)" if (a) < 400