

Mark Scheme - Final Version January 2009

Functional Skills

Maths Level 1 (FM101/01) Pilot



General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they 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.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

FM1	FM101/01					
	No	Working	Answer	Mark	Notes	
1	(a)		9.4	1	B1 cao	
	(b)	22.8-22.0 =	0.8	1	B1 Accept -0.8 (%)	
	(c)		Graph	2	M1 for process of setting up graph; upto to 2 errors in plotting with all joined, or all plotted correctly and not joined. Tolerance: $\pm 1/2$ sq. A1 Allpoints plotted correctly & joined.	
	(d)		Reason	2	B2 for a complete description (eg goes up and then goes down); B1 for describing one aspect (eg goes up or down). For B1 ignore any incorrectly quoted figures.	
	(e)	<u>(10.8+11.1+11.4+11.0+10.0+9.4+8.8+8.5)</u> 8	10.125	2	M1 (10.8+11.1+11.4)÷8="81"÷8 A1 10.1(25) SC: B1 if incorrect column used eg. BBC1:24.8(375), ITV1:23.3(625), C4: 9.7(375), Cfive: 6.0(125), Oth: 25.9(375)	
2	(a)		Line of	1	B1 for exactly one correct line of symmetry.	
			symmetry			
	(b)	2×50=100, 3×50=150	Length150	2	M1 for the process of $\times 50$ (implied by 100 or 150 seen)	
			Width 100		A1 for both Length 150 and Width 100	
	(c)		1 : 50, 3:150 oe	1	B1 3:150 or equivalent ft from (b).	
3	(a)	2844×2=	£5688	2	M1 for sight of 2844 A1 cao	
	(b)	26×270=	£7020	1	B1 cao	
	(c)	800×2=	£1600	2	M1 for process of ×2 or 800+800 A1 cao	
4	(a)	24×30÷60=	12 min.	2	M1 for 24×30 , 24×0.5 , or 720 seen A1 cao	
	(b)	60-"12"=	48 min.	1	B1 for 48 or ft 60 – (a) if (a) < 60	
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FM1	FM101/01					
	No	Working	Answer	Mark	Notes	
5	(a) (b) (c) (d)		3 12 th January 5 th January 2 nd February	1 1 1 1	B1 cao B1 Accept "2 nd week in January" or 12 th B1 Accept "1 st week in January" or 5 th B1 Accept "1 st week in February" or 2 nd NB: for (b), (c), (d) accept 2 nd , 1 st , 5 th , if	
	(e)	Bars of height 2, 8, 6	Graph	2	 consistent. M1 for process of drawing graph by showing 3 columns, at least 2 correct heights. A1 Three correct columns, correct heights, correct shading (distinct & linked to key given); allow misplacing by 1 column horiz to right but no gaps between columns. 	
	(f)		Conclusion	1	B1 one conclusion eg (bookings are) falling; description of a trend	
6	(a) (b)	£27190-£11885=	£12000 £15305	1 1	B1 cao B1 cao	
7		(100×2) + (32×15×2) = 200 + 960 = or 32×15=480, 480+100=580, 580×2=	£680 or £1160	3	M1 process of calculating either 100×2 or $32 \times 15 \times 2$, implied by sight of 200 or 960 or $32 \times 15 = 480$ or $+100$ (implied by 580) M1 for full process of $(100 \times 2) + (32 \times 15)$ or $(100 \times 2) + (32 \times 15 \times 2)$ or $200 + 480$ or $200 + 960$ A1 £680 or £1160	
8	(a)	1+3+1+3	8	2	M1 for process of adding guests to the diagram or attempts to find the perimeter A1 cao	
	(b)	$8 \times 2 + 2 = 18$	18	2	M1 for process of adding guests, perhaps shown on a partial diagram indicating more than 5 tables, or sight of 8×2 or attempts to find the perimeter for more than 5 tables A1 cao	
	(c)	8×4=	32	2	M1 for groups of 4 indicated, or ×8; need more than 5 tables. A1 cao	

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9		EFDACB, EFADCB, EDFACB, EAFDCB	Correct order	2	B2 for all correct	
					(B1 for at least 4 letters placed consecutively)	
10	(a)	264153	264153	2	B2 cao	
					(B1 for at least 3 of the order correct)	
	(b)	65000+60800+47500=	£173300	2	B2 for full answer,	
			millions		(B1 if numerically correct but incorrect/omitted	
					£ & millions	
11.	(a)		33-36	1	B1 33-36 inclusive	
	(b)			1	B1 ft angle given to nearest material in table, if	
					angle is between 20° & 40° .	
					NB: 55° linked to Mild Steel scores B0	
12.	(a)		260°C	1	B1 cao	
	(b)		-65°C	1	B1 cao	
13.	(a)		£2.99	1	B1 cao	
	(b)	2×£2.99=	£5.98	2	M1 for £2.99 or sight of $\times 2$ or digits 598	
					A1 cao	
	(c)	$(3 \times \pounds 2.39) + (2 \times \pounds 9.99) = \pounds 7.17 + \pounds 19.98$	£2.85	3	M1 for process of finding 3×2.39 (=7.17) or	
		= £27.15			2×9.99 (=19.98) or 27.15	
		$\pounds 30 - \pounds 27.15 = \pounds 2.85$			M1 (dep) for addition of parts and subtraction	
					from £30, or sight of £30 – "£27.15"	
					A1 cao	
					SC: B2 for digits 285	
14.	(a)	74.5 – 11.5	63 g	1	B1 cao	
	(b)	24 × 14.3 =	343.2 mm or	2	B2 for correct numerical answer with appropriate	
			34.32 cm		units	
					(B1 for correct numerical answer OR appropriate	
					units with approximate answer)	

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15.	(a)	(i)	50.01	1	B1 cao	
		(ii)	49.99	1	B1 cao	
	(b)	1	1			
		$\overline{100}$	100	1	B1 cao	
		100	100			

Total for paper: 60 marks