Finance Problems

Mark Scheme 1

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Level			IGCSE		07	
Subject			Maths	(0580)		
Exam Board			Cambr	idge Internatio	nal Examinatio	ns (CIE)
Paper Type			Extend	led		
Торіс			Numb	er 💦		
Sub-Topic			Financ	e Problems		
Booklet			Mark S	Scheme 1		
Time Allowed: 58 minutes						
Score:		/48	K			
Percentage:						
Grade Boundaries:						
A*	А	В	С	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1	(a)	$\frac{8}{8+15+9} \times 640 \text{oe}$	1	With no errors seen
	(b)	300 and 180	2	B1 for each or SC1 for answers reversed
	(c)	10 nfww	2	M1 for 160 ÷ 15.25 implied by 10.5 or 10.49 nfww
	(d)	$\frac{7}{24}$	3	M1 for $\frac{3}{8} + \frac{1}{3}$ or M1 for $1 - their \left(\frac{3}{3} + \frac{1}{3}\right)$ or
				While on previous with for $1 - men \left(\frac{2}{8} + \frac{2}{3}\right)$ be
				10
2	(a)	6250	3	M2 for $\frac{6000}{100-4} \times 100$ oe or M1 for 6000 associated with 96 [%]
	(b)	4441	3	B2 for 4441.1 to 4441.2 or 4440 or M1 for $\frac{6000}{1.251}$
				1.351
	(c)	1.58 or 1.581	5	M1 for $6000 \times \left(1 + \frac{1.5}{100}\right)^8$ oe
		***		A1 for 6758.95 or 6758.96 to 3 sf or better or 758.95 or 758.96 rounded or truncated to 3 sf
				and M2 for
				{ <i>their</i> (6000×1.015 ⁸)-6000} × $\frac{100}{6000\times8}$ oe
				or M1 for $\frac{6000 \times r \times 8}{100}$ oe

3	1597 cao	4	B3 for 1597.39 or 1597.3[9] or 1597.4 or 6597	
			or B2 for 6597.3[9] or 6597.4	
			or B1 for $5000 \left(1 + \frac{2}{100}\right)^{14}$	
			If B1 scored	
			or BO scored and an attempt at compound interest is	
			shown	
			SC1 for <i>their</i> 6597[] – 5000 evaluated correctly	
			provided answer positive	
			SC1 for <i>their</i> final answer rounded correctly to	
			nearest \$ from their more accurate answer	

4	20.6 or 20.58 to 20.59 3	M2 for $\frac{85-67.5}{85} \times 100$ or $\left(1-\frac{67.5}{85}\right) \times 100$			
	038	or M1 for $\frac{85-67.5}{85}$ or $\frac{67.5}{85} \times 100$			
		If zero scored SC1 for $\frac{67.5-85}{85} \times 100$			





Papacamo