Q	Marking instructions	AO	Marks	Typical solution
7(a)	Obtains	2.1	R1	
	$50 \times 1.002^3 + 50 \times 1.002^2 + 50 \times 1.002$			$T_3 = (50 \times 1.002^2 + 50 \times 1.002 + 50) \times 1.002$
	with			$= 50 \times 1.002^{3} + 50 \times 1.002^{2} + 50 \times 1.002$
	$(50 \times 1.002^2 + 50 \times 1.002 + 50) \times 1.002$			= 50 × 1.002 + 50 × 1.002 + 50 × 1.002
	or better seen		v	
	Subtotal	4	11	
Q	Marking instructions	AO	Marks	Typical solution
	Marking modacions	_ Λο	marko	Typical solution
7(b)(i)	Models the total as the sum to n	3.3	M1	50.1(1-1.002 ¹²⁰)
	terms of a geometric sequence Evidence for this could include			$T_{120} = \frac{50.1(1 - 1.002^{120})}{1 - 1.002}$
	at least two of a , r or n			= 6787.1595
	substituted into sum formula			= 6/6/.1595
	a = 50.1, r = 1.002,			Total in account = £ 6 787
	<i>n</i> = 120			W Collection Uses Protection and Collection Collection Collection
	Condone $a = 50$ or			
	n = 10 or 119			
	PI by AWRT 6724, 6737, 6801 or 505.53			
	Forms the correct expression for	3.3	A1	
	the correct total			
	$(T_{120} =) \frac{50.1(1-1.002^{120})}{1-1.002}$ or			
	$(T_{120} =)$ or $1-1.002$			
	$\sum_{x=0}^{120} 50 \times 1.002^{x}$			
	x=1			
	Obtains	3.2a	A1	
	£6 787, £6 787.15 or £6 787.16			
	Subtotal		3	
Q	Marking instructions	AO	Marks	Typical solution
7(b)(ii)	Makes a reasonable comment in	3.5b	E1	The interest rate is unlikely to remain
	context. For example: The interest rate is unlikely to			fixed for the whole 10 years
	remain fixed.			
	Or			
	May have needed to withdraw			
	some amount.			
	Or May change the monthly			
	payments.			
	Subtotal	х	11	
	Question 7 Total		5	
		ģ.		