1	for 0.08×1200 oe (= 96)	OR		3	M1	for 0.08 × 1200 oe	OR M2 for 1200 \times
	or 1.08 × 1200 oe (= 1296)					(= 96)	1.08 ³
						or 1.08 × 1200 oe	or 1200×1.08^{4}
		1200 ×				(= 1296)	(=1632.59)
	1.08 × "1296" (= 1399.68) oe	1.08^{3}			M1	for completing method	
	1.08 × "1399.68" (= 1511.6544)	oe				to find total amount in	(M1 for 1200×1.08^2
						the account	(=1399.68))
			1512		A1	accept 1511 – 1512	
						SC: if no other marks ga	ained award M1 for
						0.24×1200 oe or 288 o	or 1488
						accept $(1 + 0.08)$ as equ	ivalent to 1.08
						throughout	
							Total 3 marks

2	a	1.04 × 3 130 000 oe			3	M2	complete method to incr	ease salary by 4%	
							M1 for 0.04 × 3 130 000) oe	
							(= 125 200)		
			3 255 200		A1				
	b	for 0.15 × 750 000 oe (=112 500) or 0.85 × 750 000 oe (637 500)	OR		3	M1	For method to find depreciation for 1 year or value after 1 year	OR M2 for 750 000 × 0.85 ³ (= 460 593.75) or 750 000 × 0.85 ⁴	
		0.85 × "637 500" (= 541 875) oe 0.85 × "541 875" (= 460 593.75)	$750\ 000 \\ \times\ 0.85^3$			M1	for completing method	(= 391 504.69)	
		oe						(M1 for 750 000 \times 0.85 ² (= 541 875)	
				460 594		A1	accept 460 593 – 460 594		
							SC: if no other marks ge 0.55 × 750 000 oe (= 41) 0.45 × 750 000 oe (= 33)	2 500) or	
							accept (1 – 0.15) as equi throughout	ivalent to 0.85	
								Total 6 marks	

3	$20\ 000 \times 0.81^3$		M2	M1 for 20 000 × 0.81 (= 16 200)
				or 20 000 × 1.19 (= 23 800)
				or 20 000 \times 1.19 ³ (= 33 703.18))
		10 629	 A1	Accept 10 628 → 10.629
				Total 3 marks

4 (b)	for 0.018 × 120 000 oe or 2160 or 1.018 × 120 000 oe or 122 160		3	M1	For finding 1.8% or 101.8% of the value	OR M2 for 120000 × 1.018 ³ or 120000 × 1.018 ⁴
	1.018 × "122 160" (= 124 358.88) oe and 1.018 × "124 358.88" (= 126 597.34) oe			M1	for completing the method	or 128876.09 (M1 for 120000 × 1.018 ² or 124358.88)
	Working not required, so correct answer scores full marks (unless from obvious incorrect working) NB: this question is one where students could misread the number of zeros in 120 000 (eg one too many or one too few) in the question, up to M2 could be awarded if a correct method is seen with this misread	127000		A1	then rounded incorre	s seen in working and ectly, award full marks) is gained award M1 for or 126480 or 6480

5	$\begin{array}{c} 0.024 \times 50\ 000\ (=\ 1200)\ \text{oe or} \\ 1.024 \times 50\ 000\ (=\ 51\ 200)\ \text{oe or} \\ 1.024^2 \times 50\ 000\ (=\ 52\ 428.8)\ \text{oe or} \\ 0.024 \times 50\ 000\ \times 3\ (=\ 3600)\ \text{oe} \end{array}$		3	M1		M2 for 50000×1.024^3
	$0.024 \times 50\ 000 \times 3 + 50\ 000$ (= 53 600) oe					
	0.024 × (50 000 + '1200') (= 1228.8) oe and 0.024 × (50 000 + '1200' + '1228.8') (= 1258.2912)			M1	for completing method to find total amount in the account	
	or					
	(1200' + '1228.8' + '1258.2912' (= 3687.(0912)) or					
	1.024 × '52 428.8'					
	1.024 × 52 420.0	53 687		A1	accept 53 687 - 53 688	
					accept (1 + 0.024) or $(1$	$+\frac{2.4}{100}$ as equivalent to
					1.024 throughout	
						Total 3 marks

6	(a)	for 0.035 × 40 000 oe (= 1400) or 1.035 × 40 000 oe (= 41 400)	OR		3	M1	for finding 3.5% or 103.5% of 40000	OR M2 for 40 000 × 1.035 ³	
	1	1.035 × "41 400" oe (= 42 849) 1.035 × "42 849" oe (= 44 348.72)	40000×1.035^3			M1	for completing method to find total amount in the account	or 40 000 × 1.035 ⁴ (= 45 900.92)	
								(M1 for 40 000 × 1.035 ² (= 42 849))	
				44 3 4 9		A1	accept 44 348 - 44 349		
							SC: if no other marks gained award M1 for 0.105×40000 oe or 4200 or 44200		
							accept (1 + 0.035) as eq throughout	uivalent to 1.035	

7	18000×0.15 (= 2700) oe or 18000×0.85 (= 15 300) oe		3	M1	for finding 15% or 85% of 18 000	M2 for 18000×0.85^4 oe or 18000×0.85^5 (= 7986.(69)) oe						
	eg 18000×0.85 ⁴ oe			M1	(dep) for a complete method							
	or "15300"×0.85×0.85×0.85 oe											
	or "15300"×0.85(=13005) oe											
	and "13005"×0.85(=11054.25) oe											
	and "11054.25"×0.85 oe											
		9396		A1	awrt 9396							
					If no marks awarded, awar	d						
					SCB1 for							
					or 18000×0.85^2 (= 13 005							
					or 18000×0.85^3 (= 11 054	.(25)) oe						
					or $18\ 000 \times 0.4\ (= 7200)\ c$	be and the second se						
					or 18 000 × 1.15 (= 20700							
					or $18\ 000 \times 1.15^4$ (= $31482.(1125)$) oe							
						Total 3 marks						

8 (a	a)	1 + 0.04 (= 1.04) or		3	M1	
		100(%) + 4(%) (= 104(%)) or				
		$\frac{634\ 400}{104}$ (= 6100) oe				
		104				
		634 400 ÷ "1.04" or			M1	
		634 400 ÷ "104" × 100 or				
		634 400 × 100 ÷ "104" oe				
			No and 610 000		A1 dep on M2 for no	
					E.g. Still (band) B and	
((b)	"0.85" × "0.85" (= 0.7225) oe or		3	M1 allow use of	M2 for
		"0.85" – ("0.85" × 0.15) (= 0.7225) or			their amount	$15 + (0.15 \times "85")$
		$\frac{"85" \times "85"}{100} (= 72.25) \text{ oe or}$			e.g.	or
		100			200 × "0.85" ×	15 + 12.75
		[0.85 and 85 must come from correct working]			"0.85" (= 144.5)	
		1 – "0.7225" or 0.2775 or 100 – "72.25"			M1 e.g.	
					200-"144.5"	
					200	
					(×100)	
			27.75		A1 oe allow 27.8 or 2	8
						Total 6 marks

9	$50\ 000 \times 1.013\ (=50\ 650)\ oe$ Or 50\ 000 \times 0.013\ (=650)\ oe (NB: accept\left(1+\frac{1.3}{100}\right) for 1.013\ but not\ (1+1.3\%))		3	M1	For finding 101.3% or 1.3% of 50 000	M2 for 50000×1.013 ⁴ or 50000×1.013 ⁵
	"50 650" × 1.013 (=51 308.45) "51 308.45"× 1.013 (=51 975.45) "51 975.45× 1.013			M1	dep for a complete method	
		52 651		A1	awrt 52 651 if no marks awarde $50\ 000 \times 0.013^n$ $50\ 000 \times 0.987^4$ (= $50\ 000 \times 0.052$ (= $50\ 000 \times 1.052$ ((= $50\ 000 \times 1.013^2$ (= $50\ 000 \times 1.013^3$ (=	47450) 2600) = 52600) 51308.45)
						Total 3 marks

10	$7200 \times 0.025 \ (= 180)$		3	M1	M2 for
	or 7200 × 1.025 (= 7380) oe				$7200 \times (1.025)^3$
	or 7200 × 1.075 (= 7740) oe				
	or 7200 × 0.075 (= 540) oe				
	$(7200 + `180') \times 0.025 (= 184.5)$			M1 NB year end	
	and			values are	
	$(7200 + `180' + `184.5') \times 0.025 (= 189.1125)$			7380 and	
	and			7564.5(0)	
	7200 + '180' + '184.5' + '189.1' (= 7753.6125)			7753.6125	
		7754		A1 answer in range	7753 - 7754
					Total 3 marks

11 (a)		DR		3	M1	for finding 4% or 104%	OR M2 for
	or 1.04 × 2000 oe (= 2080)					of 2000	2000×1.04^{3} oe
	1.04 × "2080" oe (= 2163.2)	2000 ×			M1	for completing method	or 2000 × 1.04 ⁴ oe
	1.04 × "2163.2" oe	1.04 ³ oe				to find total amount in	(= 2339.72)
						the account at the end of	
						3 years	
	Correct answer scores full marks (un	nless from	2250		A1	accept 2249 - 2250	
	obvious incorrect working)	-				-	
						SC: if no other marks gain	ned award M1 for
						0.12×2000 oe or 240 or	1.12 × 2000 oe or 2240
						accept (1 + 0.04) as equiv	alent to 1.04 throughout
(b)	eg $1365 \div (1 - 0.09)$ or $1365 \div 0.91$			3	M2	for a complete method	
	or 1505 ÷ 0.91				(M1)	for $1365 \div (100 - 9) (= 15)$	5)
						or $(100 - 9)\% = 1365$ or	91% = 1365
						or eg $(1 - 0.09)T = 1365$	
						or eg $T - 0.09T = 1365$	
	Correct answer scores full marks (un	nless from	1500	1	A1		
	obvious incorrect working)	11055 77 0111	1000				
							Total 6 marks

12	$\frac{2.9}{100} \times 5000 (= 145) \text{ oe or } 1.029 \times 5000$ $1.029^2 \times 5000 (= 5294) \text{ oe or } 0.058$ or $1.058 \times 5000 (= 5290)$		4	M1	Bank H	
	5000 × 0.016 oe (= 80) oe or 5000 × 1.016 oe (= 5080) oe or 5000 × 0.032 (= 160) oe or 5000 × 1.032 (= 5160) oe	M2 for 5000 × 1.016 ² (= 5161.28)			M1	Bank G
	(80 + 5000) × 0.016 (= 81.28) oe or 5080 × 1.016 (= 5161.28) oe				M1	Bank G
	Correct answer scores full marks (unles incorrect working)	ss from obvious	16.28		A1	

13	0.12 × 700 000 oe (= 84 000)		3	M1	for finding 12% or	M2 for	
	or				88% of 700 000	$700\ 000 \times 0.88^3$	
	0.88 × 700 000 oe (= 616 000)					or	
	or					$700\ 000 imes 0.88^4$	
	$700\ 000 \times 0.88^2$ oe (= 542\ 080)					(= 419 786.75)	
	0.88 × "616 000" oe (= 542 080)			M1	for completing method		
	and				to find the value of the		
	0.88 × "542 080" oe (= 477 030.4)				car		
	Correct answer scores full marks (unless from	477 030		A1	accept 477 030 – 477 031		
	obvious incorrect working)						
					SC: if no other marks gained award M1 for		
					$0.36 \times 700\ 000\ oe\ or\ 25$	5 × 700 000 oe or 252 000	
					or 0.64 × 700 000 oe or	· 448 000	
					accept $(1 - 0.12)$ as equivalent to 0.88		
					throughout		
						Total 3 marks	

14	for 0.04×680 oe (= 27.2) or 1.04×680 oe (= 707.2)		3	M1	For finding 4% or 104% of the value	or M2 for 680 × 1.04 ³ or 680× 1.04 ⁴ or 795.5(0)	
	1.04 × "707.2" (= 735.488) oe and 1.04 × "735.488" (= 764.90752) oe or 0.04 × (680 + "27.2") = 0.04 × "707.2" = 28.288 and 0.04 × "(707.2 + 28.288)" = 0.04 × "735.488" = 29.41952 and "735.488" + "29.41952" (= 764.90752)			M1	for completing the method		
	Correct answer scores full marks (unless from obvious incorrect working)	765		Al	or $764 - 765$ (if a correct answer is rounded incorrectly, a SC: if no other marks 1.12×680 oe or 761. 0.12×680 oe or 81.6 $0.96^3 \times 680$ oe or 601 (accept (1 + 0.04) as e throughout but not (1	gained award M1 for 5(0) (or 762) or (0) (or 82) or .62 (or 602)	