



Finance Problems

Mark Scheme 6

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Finance Problems
Booklet	Mark Scheme 6

Time Allowed: 46 minutes

Score: /38

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1	(a)	1848 final answer	2	M1 for $1650 \times \left(1 + \frac{12}{100}\right)$ oe	
	(b) (i)	1750		2	M1 for $\frac{500}{9-5}$ [$\times 5$] or [$\times 9$] or any equation which would lead to $4x = 500$ or $4x = 2500$ or $4x = 4500$ or $4x = 7000$ when simplified
	(ii)	$64\frac{2}{7}$ or 64.3 or 64.28 to 64.29		1	
	(c) (i)	33 : 20 oe		2	B for 33 : 6 or 20 : 6 or 5.5 oe seen or 3.33...oe seen or M1 for two ratios with a common number of children implied by $20k$ and $33k$ seen, $k > 0$
	(ii)	236		3	M2 for $\frac{24}{2} \times 11 + \frac{24}{3} \times 10$ oe or $((3 \times 11) + (2 \times 10)) \times 24 \div 6$ or $\frac{6}{6+20+33} \times x = 24$ or M1 for $\frac{24}{2} \times 11$ or $\frac{24}{2} \times 13$ soi or $\frac{24}{3} \times 10$ or $\frac{24}{3} \times 13$ soi oe or $24 \div 6$ soi
(d)	17[.00]	3	M2 for $20.40 \div \left(1 + \frac{20}{100}\right)$ oe or M1 for $(100 + 20)\%$ oe associated with 20.40 seen		

2	3826 or 3826.38	2	M1 for $8000 \times \left(1 - \frac{10}{100}\right)^7$ oe
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3	(a) (i) 3216 Final answer (ii) 1307 Final answer	2	M for $(18900 - 5500) \times 0.24$ oe
	(b) 4.5[%] nfw	2FT	$(18900 - \text{their (a)(i)}) \div 12$ correctly evaluated M1 for $(18900 - \text{their (a)(i)}) \div 12$
	(c) A by 31.05... or 31.04 to 31.05 or 31.[0] 31.1[0]	2	M1 for $\frac{19750.50 [-18900]}{18900} \times 100$ or $\frac{19750.50 - 18900}{18900}$
		5	M for $1500 \times 4.1/100 \times 3$ [+ 1500] oe M1 for 1500×1.033^3 [- 1500] oe A1 for 1684.5 or 184.5 or 1653[.45..] or 153[.45..] and M1dep for subtraction of <i>their</i> amounts or <i>their</i> interests

4 (a)	11:14		
(b)	50		M1 for $(220 + 280) \div 10$ o.e.
(c)	12		M1 for $21 \div (4 + 3) \times 4$ (or 3) o.e.
(d)	280		M1 for $0.35 \times \text{their } 500$ (175) M1 dependent $\times 1.60$
(e)	240		M1 for dividing 264 by 1.1 oe

5 (a)	06 41	1	Allow 6.41(am). 6:41 and 06:41 Not 6h41m or 641h or 6.41pm
(b)	\$204	1	