Finance Problems

Mark Scheme 2

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Finance Problems
Booklet	Mark Scheme 2

Time Allowed: 60 minutes

Score: /5

Percentage: /100

Grade Boundaries:

A*	Α	В	С	D	Е	U
>85%	75%	60%	45%	35%	25%	<25%

1	(a)	6	3	B2 for $5\frac{1}{4}$ or 5.25 shown in working isw
				or M1 for $\frac{3}{4} \times 7$ soi by answer 5
	(b)	21.45 cao final answer	2	M1 for 17.16 × 0.25 or 17.16 × 1.25
	(c)	16.5[0] nfww	3	M2 for 17.16 ÷ 1.04 oe or M1 for 17.16 associated with 104[%] oe isw
	(d)	1.34 cao final answer	2	M1 for 13.32 ÷ 0.72 soi by 18.5[0] or for any correct complete longer method If zero scored, SC1 for 0.96 [euros] seen
	(e) (i)	750	1	
	(ii)	4.7 cao	3	B for 4.658 to 4.66 or M2 for $\sqrt{their(\mathbf{e})(\mathbf{i}) \div 11\pi}$ or M1 for $11\pi r^2 = their(\mathbf{e})(\mathbf{i})$
	(iii)	6 Pak	2	M1 for 2^3 or $\frac{1}{2^3}$ oe seen or for $\pi \times (2 \times their (e)(ii))^2 \times 22$ If zero scored, SC1 for answer 6 000
	(f) ••	8950	1	
	(g)	210	2	M1 for 0.07 × 3 000
	(h)	160 000	3	M2 for $2 \times 60 \times 100^3 \div 750$ oe or M1 for figs 16 as answer or 100^3 seen
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2	(a)	$240 \div (5+7) \times 7 = [140]$ oe	M2	M for $240 \div (5+7)$ or 240×7
	(b)	2:3 final answer	2	B for ratio of form $2x : 3x$ seen
				or SC1 for 3 : 2
	(c)	144	3	M2 for $120 + \frac{120 \times 4 \times 5}{100}$ oe
				or M1 for $\frac{120 \times 4 \times 5}{100}$
	(d)	89.99 cao mark final answer	3	B for 89.9[8] shown but not spoiled or answer 90[.0] nfww
				or M1 for $80 \times \left(\frac{104}{100}\right)^3$ oe
				If M1 spoiled by adding 80 or subtracting 80 then SC1 for answers 169.99 or 9.99
	(e)	4.08	3	M2 for $\frac{200 \times r \times 2}{100} = 200 \times 1.04^2 - 200$ oe
		R		or M1 for 200×1.04^2 [216.3[2]] oe
				or $\frac{200 \times r \times 2}{100}$ oe

3	134	3	M2 for $\frac{20.1 \times 100}{3 \times 5}$ oe
			or M1 for $\frac{x \times 3 \times 5}{100} = 20.1$ or $3\% = 4.02$ oe
			If 0 scored SC1 for answer of figs 134

4	10[.00]	3	M for 1.90 and 2.90 and 5.20 only or M1 for two of 1.90, 2.90, 5.20 in a list of three or two values from the table or SC1 FOR 1.90, 2.90, 4.30 $\left[\text{from } \frac{3.40 + 5.20}{2}\right]$
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5	(a)	$\frac{2}{5}$ cao	1	ailo.
		(ii) 3:2 cao	1	Up.
	(b)	(i) 1.22	20	M1 for 86.38 – 28 × 1.56
		(ii) 1.3 [0] nfww	3	M for $1.56 \div 1.2$ oe or M1 for $1.56 = 120\%$ soi
	(c)	33.6[0]	2	M for $(667 - 314.2) \div 10.5$ oe
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