

Free Standing Maths Qualification

Calculating Finances 6984 Intermediate Level

Mark Scheme

2006 examination - January series

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Calculating Finances

Free-Standing Mathematics Qualification Intermediate Level Calculating Finances (6984) January 2006

Answers and Marking Scheme

1 a (i)	£155.91	B1	Ignore further working
(ii)	Total repayments is £155.91 \times 36	M1	
	= £5612.76		
	Interest is £612.76	A1	
b (i)	<u>306.94</u> 100	M1	
	= £3.07	A1	Accept £3.0694
(ii)	Monthly repayment is 51 × £3.0694	M1	
	= £156.54	A1	
	Total repayment is £5635.44	M1	
	Interest is £535.44	A 1	Accept £536.52 from £3.07
(c)	£5001, benefits from lower interest rate.	B1	Accept £5100
	TOTAL	10	

	A	В	С	D	Е
1	Brand	Number of	Number of	Change in	Percentage
	of car	cars sold in	cars sold in	number of	change in
		2002	2003	cars sold	number of
					cars sold
2	Ford	400 808	378 942	-21 866	-5.455
3	Vauxhall	318 633	326 433	7 800	2.448
4	Renault	194 685	189 427	−5 258	-2.701
5	Peugeot	208 920	184 940	-23 980	-11.478
6	Citroen	130 415	117 602	-12 813	-9.825

(a)	Column D	B1	
	Any in column E	M1A1	Condone any + or – signs
	All column E correct	B1	Accept rounded or truncated to 1dp
(b)	$\frac{D4}{B4} \times 100$	B1	Accept $\frac{C4-B4}{B4} \times 100$
	TOTAL	5	

Question 3

TOTAL	4	
= 104 500	A1	Misplaced decimal point; SC2
= 104 514.8	A 1	
$100\% = \frac{13033}{12.47} \times 100$	M1	
13 033≈ 12.47%	B1	

7	parts	B1	
5 7	×35000	M1	
=	£25 000	A 1	
T	OTAL	3	

(a)	Plotted correctly	B2	B1 for 2 correct
(b)	Large reduction in those with negative equity.	B1	Accept any sensible comment
	TOTAL	3	

Question 6

(a)	Annual income = £4170 \times 12		
	= £50 040	B1	If 45145 seen in (b) B1M1 and another ans in (a)
	Taxable income = £50 $040 - 4895$	M1	
	=£45 145	A1	Ignore any subsequent work seen
(b)	Tax paid is 10% of £2090		
	+ 22% of £30 310		
	+ 40% of £12 745	M1	45145 – 32400
		A1	12 745
	=£209 +£6668.20 +£5098	M1	3 products
		A1	Any 2 correct
	=£11 975.20	A1	
	TOTAL	8	

Payment is 11% of £15	B1	£15
= £1.65	B1	
TOTAL	2	

(a)	Use of 120 and 50p	B1 both	Accept 117 and 50p [50p or £ $\frac{1}{2}$]
	$120 \times \frac{100}{50}$	M1	
	= 240	A1	Accept $117 \times \frac{100}{50} = 234$
(b)	240 × 50		Dependent on B1 gained in (a) Condone 4×12 instead of 52
	= 12 000	B1	$240 \times 52 = 12 \ 480$
			Accept $234 \times 52 = 12168$
			$230 \times 52 = 11960$
			$234 \times 50 = 11700$ $230 \times 50 = 11500$
	TOTAL	4	230 / 30 11 300
	IOIAL	-	

Question 9

TOTAL	2	
= 0.3	A1	
1 - 0.7	M1	

Normal price is $1.75 \times \text{cost price}$		OR
New price is $1.3 \times 1.75 \times \text{cost price}$	M1	30% increase is $\frac{30}{100} \times 175$ M1 = 52.5 A1
$= 2.275 \times \text{cost price}$	A1	
Profit is $1.275 \times \text{cost price}$	M1	∴ Increase is 75 + 52.5 M1
which is 127.5 %	A1	= 127.5% A1
TOTAL	4	

(a)	1.002212		
	= 1.02672	B1	
	Amount is £5000 \times 1.02672	M1	
	= £5133.61	A1	Accept 5133.60
b	Investment becomes 102.672 % of the original amount	B1	
	AER is 2.67%	B1	Or Interest is £133.61 AER is $\frac{133.61}{5000} \times 100$ M1 = 2.67% A1
	TOTAL	5	
	TOTAL MARKS	50	