

π - Unit 2 - Percentages

	Answer	Marks	Parial marks and guidance
1	a) 0.09	1	
	b) 0.205	1	
	c) 1.12	1	
	d) 0.93	1	
	e) 1.802	1	
	f) 0.784	1	
2	a) 5	4	3 $1700 \div 340$ 2 £510 per month spent or £340 per month saved seen
	b) 40.3	2	1 for at least two percentages seen from: 10% = 12.4, 1% = 1.24, 0.5% = 0.62 or 0.325 seen

3	56.52	5	3 (£)42.12 seen 2 (£)1.17 × 36 seen 1 (£)1.17 or $\frac{1}{4}$ of 144 = 36 seen OR 2 (£)194.4(0) seen or $1 \frac{3}{4}$ of 144 = 108 AND 1 (12 × 12 =) 144 melons or (12 × 15 =) £180
4	Mega Bathrooms (with correct workings)	4	2 £1230 seen 1 for at least two percentages seen from: 10% = 150, 5% = 75, 1% = 15 or 0.18 or 0.82 seen AND 1 50% of £500 = £250 or £1250 seen
5	19	3	2 19.04(76...) seen $1 \frac{4}{21} \times 100$ or equivalent
6	38%	4	3 138% seen 2 $100 \times 1.2 \times 1.15$ seen 1 1.2 or 1.15 seen

7	750	3	$2\,900 \div 1.2$ or $10\% = 75$ or $20\% = 150$ or $600\% = 4500$ 1 1.2 seen or $120\% = 900$
8	9086.50	3	$2\,195.5(0) \times 3 (= (\text{£})586.5(0))$ seen $1\,0.023 \times 8500 (= (\text{£})195.5(0))$ seen
9	a) 655.64 b) 6	3 3	NB: Allow 655.63 for 3 marks $2\,600 \times 1.03^3$ seen 1 618 seen $2\,2500 \times 0.84^6 = 878.24(5 \dots)$ $1\,2500 \times 0.84^n$ seen
10	Secure Bank	5	$2\,2500 \times 1.02 \times 1.009^2 (= 25961.06 \dots)$ 1 25 500 seen AND $2\,300 \times 3 (= (\text{£})900)$ seen $1\,0.012 \times 25\,000 (= (\text{£})300)$ seen
Total marks		45	