

π - Unit 2 - Percentages

	Answer	Marks	Parial marks and guidance
1	a) 0.6	1	Allow 0.60
	b) 0.075	1	
	c) 1.46	1	
	d) 0.89	1	
	e) 1.108	1	
	f) 0.987	1	
2	a) 6.90	3	2 (£)57.6(0) 1 for at least two percentages seen from: 10% = 18, 5% = 9, 1% = 1.8 or 0.32 seen
	b) 26.95	2	1 for at least two percentages seen from: 25% = 24.5, 5% = 4.9, 2.5% = 2.45, 1% = 0.98, 0.5% = 0.49 or 0.275 seen

3	218.20	5	3 (£)187.2(0) seen 2 (£)10.40 $\times$ 18 seen 1 (£)10.4(0) or $\frac{3}{5}$ of 30 = 18 seen OR 2 (£)156 seen or 1 $\frac{2}{5}$ of 30 = 12 AND 1 (5 $\times$ 6 =) 30 candles or (5 $\times$ 25 =) £125
4	Marie (with correct workings)	4	3 79.68 and 77.76 seen 2 79.68 or 77.76 seen 1 16.32 or 30.24 or 0.83 or 0.72 seen
5	52.7	3	2 52.69(18...) seen 1 $\frac{46}{87.3} \times 100$ or equivalent
6	40%	4	3 60% seen 2 100 $\times$ 0.8 $\times$ 0.75 seen 1 0.8 or 0.75 seen

7	2000	3	2 $2600 \div 1.3$ or 10% = 200 or 1% = 20 or 1300% = 26000 1 1.3 seen or 130% = 2600
8	3655	3	2 51×5 (= (£)255) seen 1 0.015×3400 (= (£)51) seen
9	a) 15488 b) 12000	3 3	NB: Allow 655.63 for 3 marks 2 $600 \times 0.8 \times 0.88^2$ seen 1 618 seen 2 $12180.9 \div 1.005^3 = 11999.998 \dots$ 1 $n \times 1.005^3 = 12180.90$ seen
10	15.38	6	NB: Allow 15.37 for 6 marks 2 6400×1.0025^8 (= 7797.778 ...) 1 6560 seen AND 2 172.80×8 (= (£)1382.4(0)) seen 1 0.027×6400 (= (£)172.8(0)) seen AND 1 (their) 7797.78 – (their) 7782.40

Total marks	45
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