

Yr9 core mod 4 rev sheet 1 Answers

1)	(a) 25 000 000 cao	1	
	(b) $0.6 < 65\% < \frac{2}{3}$	1	
	(c) 20%	3	B1 for 50 seen M1 for $\frac{\text{their } 50}{250} \times 100$ or B1 for 0.8 or 80 seen M1 for 1 – their 0.8 or 100 – their 80
2)	(a) $1.5(0) \times 10^2$ cao	1	
	(b) 100 cao	1	
	(c) 2 hours 15 minutes cao	1	
3)	(a) (i) 70 cao	1	
	(ii) 1.11(11...)	2	B1 for $100 \div 90$, $10 \div 9$, $1\frac{1}{9}$
	(b) (i) 15 cao	1	
	(ii) $(1500 - 15) \times 1.04$	2	B1 for $\times 1.04$, 1560, 15.60
4)	1.8	2	M1 for $1.4 \div 7$ or SC1 for answer 180
5)	16	2	B1 for 1cm to 0.5km oe or 800 000 (cm) or figs 16
6)	(a) 120	1	
	(b) $\frac{9}{25}$ cao	2	B1 for $\frac{36}{100}$ or $\frac{18}{50}$
7)	95.52	1	
8)	(a) 75	2	M1 for $\frac{500 \times 5 \times 3}{100}$ oe or SC1 for answer of 575
	(b) 3.81(25)	4	M2 for $500 \times 1.05 \times 1.05 \times 1.05$ or M1 for $500 \times 1.05 \times 1.05$ A1 for 578.81(25) or 78.81(25) seen and A1ft for value of $500(1.05)^3 - 500$ – their (a)
9)	$\frac{9}{8} < 115\% < 1\frac{1}{6} < 1.2$	2	M1 for all decimals (or %), allow 1 error or B1 for 3 in correct order eg $115\% < \frac{9}{8} < 1\frac{1}{6} < 1.2$ SC1 for reverse order

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| 10) | 7.5 | 2 | M1 for $12 \times 5 \div (1 + 5 + 2)$ oe |
| 11) | 11.3 | 3 | M2 $22 \times 1.852 \times 1000/3600$ oe
or M1 $22 \times$ figs 1852 or $22 \times 1000/3600$ |
| 12) | $\frac{11}{21}$, 52.4%, 0.525, $\frac{111}{211}$ | 2 | M1 for conversion to decimals or %, allow 1 error
0.5238..., 0.524, 0.525, 0.526
or B1 for 3 in correct order
SC1 correct but reverse order |
| 13) | 112 | 2 | M1 for $240 \div (7 + 8) \times 7$ |
| 14) | (\$)138 | 2 | M1 for 120×1.15 oe
SC1 answer 18 |
| 15) | 882 | 2 | M1 $800 \times 1.05 \times 1.05$ |
| 16) | 298.79 cao | 2 | M1 for $500 \div 1.6734$ |