## Percentages 2 Answers

1) 68.5 www

3 | M2 for $67.13 \div 0.98$ |
| :--- | :--- |
| or M1 for 67. 13 is $98 \%$ |

2) 843.75
$3 \mid \mathbf{M} 2$ for $\frac{750 \times 5 \times 2.5}{100}+750$ oe
or M1 for $\frac{750 \times 5 \times 2.5}{100}$ oe
or SC2 for answer 93.75
3) 120
$2 \left\lvert\, \begin{aligned} & \text { M1 for } \frac{750 \times 2 \times 8}{100} \\ & \text { answer }\end{aligned}\right.$ oe seen or SC1 870 as final
4) 

(a) $52.2(\%)$ or $52.17 \ldots$
(b) $11000-(32 \div 100 \times 11000)$ or $(68 \div 100 \times 11000)$
(=) 7480
(c) 8293 or 8290 or 8293.2 or 8293.21 as final answer
(d) (i) 4400
(ii) 4950
(iii) 1650
(e) $8: 9: 3$ cao

1

E1 Must see this for the second mark.
3 Either M1 for $7480 \times 1.035^{2}$ oe or M1 for $7480 \times 1.035=7741.8$ and their $7741.8 \times 1.035$
(M1 implied by 8012.76...)
Then M1 dep for completion of method for the third year
If zero SC1 for answer 813.(2...)
1
1
1ft 11000 - their (d)(i) - their (d)(ii)
2 B1 for 40:45:15 oe seen or correct non-integer ratio
5) 17.05 cao www
$4 \quad$ M1 for $280 \times\left(1+\frac{3}{100}\right)^{2}$ oe
M1 subtracting 280 from $280\left(1+\frac{k}{100}\right)^{2}$ any $k$
A1 for 17.052 or SC2 297.05 on answer line

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6) 

| (a) | $\begin{array}{l}445 \text { final answer } \text { www } 3 \\ \text { (b) }\end{array} \begin{array}{l}640 \text { or } 4640 \\ 4622.5 \text { or } 622.5\end{array}$ |
| :--- | :--- |

Alex by 17.5(0) cao final answer www 6
$3 \quad$ M2 for $351.55 \div(1-0.21)$ oe or M1 for $351.55=(100-21)(\%)$

M1 for $4000 \times 0.08 \times 2$ oe
M1 for $4000 \times(1.075)^{2}$ oe or $4000 \times 0.075(=300)$ and $(4000+$ their 300$) \times$ 0.075 and total interest $=$ the sum of their 2 interests.

2 M1 for S I amount - C I amount or reverse or simple interest - compound interest or reverse
7)

| (a) | 107.52 |
| :--- | :--- |
| (b) | $28.8(0)$ |
| (c) | 14 |
|  |  |

8) $\quad 543.19$
9) 96
10) 

88.2(0)
$3 \quad$ M2 for $500 \times 1.028^{3}$ oe or long method or M1 for $500 \times 1.028^{n}, n=2$ or 4

2
M1 $72 / 0.75$ oe or M1 $0.75 x=72$ oe

| $\mathbf{2}$ | M1 for $84 \times 1.05$ oe |
| :--- | :--- |

