Percentages 2 Answers

3 M2 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

2 M1 for
$$\frac{750 \times 2 \times 8}{100}$$
 oe seen or SC1 870 as final answer

4)

- **(a)** 52.2(%) or 52.17...
- **(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) 4 400 (ii) 4 950 (iii) 1 650
- (e) 8:9:3 cao

- **M1**
- **E1** Must see this for the second mark.
- Either **M1** for 7480×1.035^2 oe or **M1** for $7480 \times 1.035 = 7741.8$ and their 7741.8×1.035 (**M1** implied by 8012.76...)

Then M1 dep for completion of method for the third year

If zero **SC1** for answer 813.(2...)

- 1ft 11 000 - their (d)(i) - their (d)(ii)
- **B1** for 40: 45: 15 oe seen or correct non-integer ratio

4 M1 for
$$280 \times (1 + \frac{3}{100})^2$$
 oe
M1 subtracting 280 from $280(1 + \frac{k}{100})^2$ any k

A1 for 17.052 or **SC2** 297.05 on answer line

Percentages 2 Answers

3

2

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 2

2 **M1** for $4000 \times (1.075)^2$ oe or 4000 × 0.075 (= 300) and (4000 + their 300) × 0.075 and total interest = the sum of their 2

interests.

Alex by 17.5(0) cao final answer www 6

M1 for SI amount – CI amount or reverse or simple interest – compound interest or reverse

M1 $2 \times 24 + 3 \times 16$ or 96 3 **M1** for their 96×1.12 oe

(b) 28.8(0) 2 **M1** for $24 \times 1.2(0)$ oe

14 (c)

3 **B1** for 42(c) or (\$ 0).42 **M1** for their $\frac{42}{300}$ oe (× 100) or $\frac{0.42}{3}$ (× 100)

alt. method : M1 $\frac{3.42}{3}$ (× 100) or $\frac{342}{300}$ (× 100)

M1 their 114 - 100

M2 for 500×1.028^3 oe or long method or **M1** for 500×1.028^n , n = 2 or 4

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

2 M1 for 84×1.05 oe