| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **9** | (a) | for 0.04 × 2000 oe (= 80)<br>**or** 1.04 × 2000 oe (= 2080) | **OR** | | 3 | M1 | for finding 4% **or** 104% of 2000 | **OR** M2 for $2000 \times 1.04^3$ oe **or** $2000 \times 1.04^4$ oe (= 2339.72) |
| | | 1.04 × "2080" oe (= 2163.2)<br>1.04 × "2163.2" oe | $2000 \times 1.04^3$ oe | | | M1 | for completing method to find total amount in the account at the end of 3 years | |
| | | *Correct answer scores full marks (unless from obvious incorrect working)* | | 2250 | | A1 | accept 2249 – 2250 | |
| | | | | | | | **SC:** if no other marks gained award M1 for 0.12 × 2000 oe **or** 240 **or** 1.12 × 2000 oe **or** 2240<br><br>accept (1 + 0.04) as equivalent to 1.04 throughout | |
| | (b) | eg 1365 ÷ (1 − 0.09)<br>**or** 1365 ÷ 0.91 | | | 3 | M2 | for a complete method | |
| | | | | | | (M1) | for 1365 ÷ (100 − 9) (= 15)<br>**or** (100 − 9)% = 1365 **or** 91% = 1365<br>**or** eg $(1 - 0.09)T = 1365$<br>**or** eg $T - 0.09T = 1365$ | |
| | | *Correct answer scores full marks (unless from obvious incorrect working)* | | 1500 | | A1 | | |
| | | | | | | | | **Total 6 marks** |