| | | | | |
|---|---|---|---|---|
| **13** | $80\,000\times\left(\frac{100+x}{100}\right)^3=80\,000+6151.25$ oe **or**<br>$80\,000\times\left(1+\frac{x}{100}\right)^3=80\,000+6151.25$ oe **or**<br>$80\,000\times(1+x\%)^3=80\,000+6151.25$ oe **or**<br>$80\,000\times y^3=80\,000+6151.25$ oe **or**<br>$\frac{80\,000+6151.25}{80\,000}$ (= 1.076…) oe **or**<br>$\frac{86151.25}{80\,000}$ (= 1.076…) oe | | 5 | M1 |
| | $\sqrt[3]{\frac{80\,000+6151.25}{80\,000}}$ (= 1.025) oe **or**<br>$\sqrt[3]{\text{"1.076..."}}$ (= 1.025) **or** $\left(1+\frac{x}{100}=\right)\frac{41}{40}(=1.025)$ | | | M1 |
| | *Correct answer scores full marks (unless from obvious incorrect working)* | 2.5 | | A1 Accept answers in the range 2.4 – 2.6 from correct working<br>NB Do not allow an answer in the range 2.4 – 2.6 if it comes from awrt 7.6% oe or 7.7% oe divided by 3<br>Do not accept an answer if it is in the range that comes from a simple interest method |
| | | | | **Total 3 marks** |