1.16 (a) $\sqrt[3]{\dfrac{2.78 \times 10^{11}}{3.12 \times 10^{-3}}}$ **OR** $\sqrt[3]{8.91025... \times 10^{13}}$ *(M1)*

> **Note:** Award *(M1)* for correct substitution into given expression.

      44664.59503   *(A1)*   *(C2)*

> **Note:** Award *(A1)* for a correct answer with at least 8 digits.
> Accept 44664.5950301.

                                                            [2 marks]

   (b)   (i)   44664.60   *(A1)*(ft)   *(C1)*

> **Note:** For a follow through mark, the answer to part (a) must
> be to at least 3 decimal places.

        (ii)   44700   *(A1)*(ft)   *(C1)*

> **Notes:** Answer to part (a) must be to at least 4 significant figures.
> Accept any equivalent notation which is correct to 3 significant figures.
> For example 447×10^2 or 44.7×10^3.
> Follow through from part (a).

                                                            [2 marks]

   (c) 4.47×10^4 *(A1)*(ft)*(A1)*(ft)   *(C2)*

> **Notes:** Award *(A1)*(ft) for 4.47 and *(A1)*(ft) for 10^4.
> Award *(A0)(A0)* for answers such as 44.7×10^3.
> Follow through from part (b)(ii) **only**.

                                                            [2 marks]

                                                      Total [6 marks]