

1. Decimals and standard form

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(a) multiplying and dividing

(i) 2.5×1.36 Move the decimal points to the right until each is a whole number, noting the total number of moves, perform the multiplication, then move the decimal point back by the previous total:
 $\rightarrow 25 \times 136 = 3400$, so the answer is 3.4

[Note in the previous example, that transferring a factor of 2, or even better, 4, from the 1.36 to the 2.5 makes it easier:

$$25 \times 136 = 25 \times (4 \times 34) = (25 \times 4) \times 34 = 100 \times 34 = 3400]$$

(ii) $0.00175 \div 0.042$ Move both decimal points together to the right until the divisor is a whole number, perform the calculation, and that is the answer.
 $\rightarrow 1.75 \div 42$, but simplify the calculation by cancelling down any factors first. In this case, both numbers share a 7, so divide this out: $\rightarrow 0.25 \div 6$, and

$$\begin{array}{r} 0.041\bar{6} \\ 6 \overline{) 0.25} \end{array}, \text{ so the answer is } \underline{0.041\bar{6}}$$

(iii) decimal places

To round a number to n d.p., count n digits to the right of the decimal point. If the digit following the n^{th} is ≥ 5 , then the n^{th} digit is raised by 1.

e.g. round 3.012678 to 3 d.p. 3.012678 \rightarrow 3.012|678 so 3.013 to 3 d.p.

(iv) significant figures

To round a number to n s.f., count digits from the left starting with the first non-zero digit, then proceed as for decimal places.

e.g. round 3109.85 to 3 s.f., 3109.85 \rightarrow 310|9.85 so 3110 to 3 s.f.

e.g. round 0.0030162 to 3 s.f., 0.00301|62 \rightarrow 0.00301|62, so 0.00302 to 3 s.f.

(b) standard form

(iii) Convert the following to standard form: (a) 25 000 (b) 0.0000123
Move the decimal point until you have a number x where $1 \leq x < 10$, and the number of places you moved the point will indicate the numerical value of the power of 10. So $25000 = 2.5 \times 10^4$, and $0.0000123 = 1.23 \times 10^{-5}$

(iv) multiplying in standard form: $(4.4 \times 10^5) \times (3.5 \times 10^6)$ As all the elements are multiplied, rearrange them thus:

$$= (4.4 \times 3.5) \times (10^5 \times 10^6) = 15.4 \times 10^{11} = \underline{1.54 \times 10^{12}}$$

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