

SCIENTIFIC NOTATION

To express a number in scientific notation, the decimal point is moved either left or right until a single non zero digit precedes the decimal point. To compensate for the change in magnitude of the number, one must multiply by an appropriate power of 10.

i.e. The speed of light is 299793000 m/s. Expressed in scientific notation, the speed of light is written as $2.99793 \times 10^8 \text{ ms}^{-1}$.

Express the following in scientific notation;

a) 0.004856 cm

b) 0.010356 s

c) 346732.01 mg

d) 1078.235 kL

e) 246.7 Ms

f) $0.0023 \times 10^{-3} \mu\text{s}$

g) $48.57 \times 10^2 \text{ \AA}$
