

A3 Standard Form and Prefixes

You will be penalized if you give the wrong number of significant figures where the question specifies the required number of significant figures. [NOTE: standard form means that there is always one non-zero digit before the decimal point.]

A3.1 Write the following as 'normal' numbers:

a) 3×10^4

b) 4.89×10^6

A3.2 Write the following as 'normal' numbers:

a) 3.21×10^{-3}

b) 2×10^0

A3.3 Write the following in standard form to three significant figures:

a) 2 000 000

b) 34 580

A3.4 Write the following in standard form to three significant figures:

a) 23.914

b) 0.000 005 638

A3.5 Write the following as 'normal' numbers with the unit (but without the prefix):

a) 3 kJ

b) 20 mA

A3.6 Write the following using the most appropriate prefixes:

a) 5×10^7 m

b) 6×10^{-10} s