



Standard Form



Hedgehog Mathematical Sheets

Literacy

Also called “Scientific Notation”

Exponent

$$4.21 \times 10^6$$

Significant

Research

Write using Standard Form,
the distance in metres from:

Earth to the sun

Earth to Voyager 1

Earth to Proxima Centauri

Memory

Learn these rules:

Significant is always between
one and ten.

Exponent multiples or divides
the **significant** by the required
number of tens.

Skills

Convert these values into standard form:

a) 2000

b) 67000

c) 482.6

d) 0.003

e) 0.0000465

f) 0.01007

Convert these numbers into decimal values:

g) 6×10^3

h) 4.8×10^3

i) 2.93×10^5

j) 7×10^{-3}

k) 8.56×10^{-5}

l) 4.002×10^2

Stretch

Work out the following:

i) $(3 \times 10^4) \times (2 \times 10^7)$

ii) $(4 \times 10^3) \times (8 \times 10^6)$

iii) $(5 \times 10^{-5}) \times (7 \times 10^3)$

iv) $(8 \times 10^6) \div (4 \times 10^3)$

v) $(3 \times 10^2) \div (4 \times 10^5)$

vi) $(5 \times 10^{-3}) \div (8 \times 10^{-5})$