Malaria Medicine
Scientific Notation (S.N.)

$1 \leq a < 10 \rightarrow a \times 10^{b}$ ← integer

Very large values	Very small values
43,000,000,000	0.000054
4.3×10^{10}	5.4×10^{-5}

S.N. → Standard Form (S.F.)

Ex:) 4.75×10^{8}

4.75000000.

475,000,000

Ex:) 3.1×10^{-5}

.00003.1

0.000031

Ex:) 7.46×10^{8}

7.46000000.

746,000,000

Ex:) 2.89×10^{-4}

.0002.89

0.000289

Ex:) 1.19×10^{0}

1.19×1

1.19

Note

S.F. → S.N.

Ex:) 326,000

3.26×10^{5}

Ex:) 0.0034

3.4×10^{-3}

Obj:) 53 000 000 000 000 000

5.3×10^{13}

Obj:) 0.00000612

6.12×10^{-6}

Ex:) How many times as great is 6×10^7 compared to 2×10^5?

$$\frac{6}{2} \times \frac{10^7}{10^5}$$

$$3 \times 10^{7-5}$$

$$3 \times 10^2 \rightarrow$$ It is 300 times greater.

Obj:) How many times as great is 8×10^7 compared to 5×10^3?

$$\frac{8}{5} \times \frac{10^7}{10^3}$$

$$1.6 \times 10^{7-3}$$

$$1.6 \times 10^4 \rightarrow 1.6000.$$

It is 16,000 times greater.