

Scientific Notation

- good for really big and really small numbers
- in relation to significant digits

format:

$$\frac{n}{\text{---}} \times 10^m$$

$1 \leq n < 10$
 $(1, 2, 3 \dots 9)$ $1, 5$

Example:

$$1525 = 1.525 \times 10^3$$

$$0.00471 = 4.71 \times 10^{-3}$$

$$7.81 \times 10^{-2} = 0.0781$$

$$6.02 \times 10^{23} =$$

$$565 \times 10^{-9} \text{ m} = 5.65 \times 10^{-7} \text{ m}$$