

Intro Physics Unit - The Measure of Science Worksheet (Part 1)

- Express the following measurements in scientific notation
 - 5800 m
 - 450 000 m
 - 302 000 000 m
 - 86 000 000 000 m
 - 0.000 508 kg
 - 0.000 000 45 kg
- Convert each of the following length measurements to its equivalent in meters
 - 1.1 cm
 - 76.2 pm
 - 5.4 km
- Convert each of these mass measurements to its equivalent in kilograms.
 - 147 g
 - 11 μg
 - 1500 mg
- Solve the following problems, express your answers in scientific notation.
 - $(5 \times 10^{-7} \text{ kg}) + (3 \times 10^{-7} \text{ kg})$
 - $(4 \times 10^{-3} \text{ kg}) + (3 \times 10^{-3} \text{ kg})$
 - $(1.66 \times 10^{-19} \text{ kg}) + (2.30 \times 10^{-19} \text{ kg})$
 - $(7.2 \times 10^{-12} \text{ kg}) - (2.6 \times 10^{-12} \text{ kg})$
 - $(6 \times 10^{-8} \text{ m}^2) - (4 \times 10^{-8} \text{ m}^2)$
- Find the value of each of the following quantities
 - $(2 \times 10^4 \text{ m})(4 \times 10^8 \text{ m})$
 - $(3 \times 10^4 \text{ m})(2 \times 10^6 \text{ m})$
- Find the value of each of the following quantities.
 - $\frac{6 \times 10^{-8} \text{ m}}{2 \times 10^{-4} \text{ s}}$
 - $\frac{(3 \times 10^4 \text{ kg})(4 \times 10^4 \text{ m})}{6 \times 10^4 \text{ s}}$