

Physics - The Measure of Science Worksheet (Part 2 - Extra Questions)

- State the number of significant figures in each measurement.
 - 5100 m
 - 5100.0 m
 - 1.0004 m
 - 508 m
 - 1.23×10^{-4} m
 - 6×10^9 m
- State the number of significant figures in each measurement.
 - 200 m
 - 2.05 mm
 - 200.0 kg
 - 0.200 mL
 - 0.00200 m
 - 3.5×10^{-4} m
- Add 4.12 cm, 6.8 cm, 0.120 cm, 9.52 cm
- Subtract 5.4 g from 12.56 g
- Perform the following multiplications with the correct number of significant figures
 - 5.4 cm \times 6.55 cm
 - 4.1568 km \times 2.77289 km
- Perform the following divisions with the correct number of significant figures
 - 15.2 cm \div 8.44 s
 - 6.258 m \div 5 s
- Perform the following multi-step problem and state your answer with the right amount of significant figures.
 - $$\frac{5.258 \text{ cm} - 2.1 \text{ cm}}{6.58 \text{ cm}}$$
 - $(3.54 \text{ mm} \times 4 \text{ mm}) + 2.85 \text{ mm}^2$
- Solve the following equation for m . $y = mx + b$
- Solve the following equations for d
 - $v = \frac{d}{t}$
 - $r^2 = g^2 + d^2$
 - $a = \frac{v^2}{2d}$
 - $\frac{v}{a} = \frac{d}{c}$
- Solve each of these equations for v
 - $f = \frac{E}{v}$
 - $m = \frac{2E}{v^2}$
 - $\frac{v}{c^2} = m$
- Solve the equation $v_f^2 = v_i^2 + 2ad$ for v_i
- Solve each of these equations for v_i
 - $v_f = v_i + at$
 - $y = v_i t + \frac{1}{2}at^2$
 - $v_f^2 = v_i^2 + 2ay$
 - $v_f = \sqrt{2v_i a s}$