

Physics - The Measure of Science Worksheet (Part 2)

- State the number of significant figures in each measurement.
 - 2804 m
 - 2.84 m
 - 0.0029 m
 - 0.003068 m
 - 4.6×10^5 m
 - 4.06×10^5 m
- State the number of significant figures in each measurement.
 - 75 m
 - 75.00 mm
 - 0.007 060 kg
 - 1.87×10^6 mL
 - 1.008×10^8 m
 - 1.20×10^{-4} m
- Add 6.201 cm, 7.4 cm, 0.68 cm, 12.0 cm
- Subtract 8.264 g from 10.8 g
- Perform the following multiplications with the correct number of significant figures
 - 131 cm \times 2.3 cm
 - 3.2145 km \times 4.23 km
- Perform the following divisions with the correct number of significant figures
 - 20.2 cm \div 7.41 s
 - 3.1416m \div 12.4 s
- Perform the following multi-step problem and state your answer with the right amount of significant figures.
 - $6.5 \text{ m} + \left(\frac{2.465\text{m}^2}{1.28\text{m}}\right)$
 - $4.3^2 + 3.56^2$
- Solve the following equation for b . $y = mx + b$
- Solve the following equations for v
 - $d = vt$
 - $t = \frac{d}{v}$
 - $a = \frac{v^2}{2d}$
 - $\frac{v}{a} = \frac{b}{c}$
- Solve each of these equations for E
 - $f = \frac{E}{s}$
 - $m = \frac{2E}{v^2}$
 - $\frac{E}{c^2} = m$
- Solve the equation $v_f^2 = v_i^2 + 2ad$ for d
- Solve each of these equations for a
 - $v_f = v_i + at$
 - $y = v_i t + \frac{1}{2}at^2$
 - $v_f^2 = v_i^2 + 2ay$
 - $v = \sqrt{2as}$