

Physics 1210: Study Guide for Chapter 1

OBJECTIVES:

1. Learn the basic quantities and their SI units (metric system).
2. Understand how to determine significant figures.
3. Know how to convert units.
4. Review coordinate systems.
5. Understand the difference between scalars and vectors.
6. Review unit vector notation.
7. Learn to use graphical and trigonometric methods to find the resultant of several vectors.

The basic physical quantities are length (L), mass (M) and time (T).

The SI units are: Meter (m) for length
 Kilogram (kg) for mass
 Second (s) for time

Significant figures (useful digits) – also known as sig. figs.

Multiplication/division: Limited by the number with the least sig. figs.

With multiplication and division, one should be concerned with the number of significant digits. In multiplying (dividing) two or more quantities, the number of significant figures in the final answer should be equal to the least number of significant figures in the multiplicand (dividends). Do NOT round intermediate numbers, but only the final answer. Never truncate numbers; that is, never chop off the unwanted digits without rounding.

Addition/subtraction: Limited by the digit place with respect to the decimal.

In addition and subtraction one needs to pay attention to the number of decimal places and not the number of significant digits. In this case, the number of decimal places in the result should equal the smallest number of decimal places of any term in the sum (or difference).

Conversion of Units – Think: multiply by one.

Consider the units you want to change. Find the relationship between the new and the old units. Set up a ratio such that the unit you want to cancel is opposite (top or bottom) the unit in the original number. This way, when you multiply by the ratio you are multiplying by one and will only have the effect of changing units.

Example –

$$\text{Speed of sound: } v_s = 331 \frac{\text{m}}{\text{s}} \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) = 1.19 \times 10^5 \frac{\text{km}}{\text{hr}}$$

If you want to change a unit with a power (that is squared, cubed, ...), you have to change the linear (no power) unit first, then raise the result to the correct power (square, cube, ...).

Physics Chapter 1 Study Guide

Arturo Cuomo



Physics Chapter 1 Study Guide:

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