

If we are to report the results of a measurement as numbers, then either we can produce the measurements, or somebody else has defined it, or it is something of a habit from another place we can talk to as about a length of 1 “light-year.” If we do not know the meaning of the unit light-year, then the other team, if someone hasn’t yet told our entire of measurement reports that a wall is 2 meters high, and our unit of length is defined as for 2 meters, we know that the height of the wall is twice our basic length unit. Likewise, if we are told that a person has a mass of 70 kilograms, and our unit of mass is defined as for 1 kilogram, then that person is 70 times as massive as our basic unit.¹ Whatever is chosen as a standard must be made as accurate and precise as possible, and can be measured reliably—measurements taken by different people in different places must yield the same result.

In 1983, an international committee established a set of standards for length, mass, and other basic quantities. The system established is an abbreviation of the metric system, and is called the **SI system** of units. (The abbreviation SI comes from the system’s French name “Système International.”) In this system, the units of length, mass, and time are the meter, kilogram, and second, respectively. Other SI standards established by the committee are those for temperature (the kelvin), electric current (the ampere), luminous intensity (the candela), and the amount of substance (the mole). In our study of mechanics we shall be concerned only with the units of length, mass, and time.

Length

In 1793, 1795 the king of England decreed that the standard of length in his country would be based on the yard and would be precisely equal to the distance from the tip of his nose to the end of his outstretched arm. Similarly, the original standard for the time adopted by the French was the length of the most basic of things, Earth. This standard prevailed until 1793, when the legal standard of length in France became the meter defined as one ten-millionth the distance from the equator to the North Pole along one particular longitudinal line that passes through Paris.

Many other systems for measuring length have been developed over the years, but the advantages of the French system have caused it to prevail in almost all countries and in scientific circles worldwide. As accurate as 1793, the length of the meter was defined as the distance between two lines on a specific platinum-iridium bar stored under controlled conditions in France. This standard was then chosen for several reasons, a principal one being that the French accuracy with which the separation between the lines on the bar was far exceeded those on even the most sophisticated of science and technology. In the 1960s and 1970s, the meter was defined as 1/10⁹ 165 076 373 wavelengths of orange-red light emitted from a krypton-86 lamp. Moreover, in October 1983, the **meter (m) was redefined as the distance traveled by light in vacuum during a time of 1/299 792 458 second**. In effect, this latest definition establishes that the speed of light in vacuum is precisely 299 792 458 m per second.

Table 2.1 lists approximate values of some measured lengths.

¹ The word for carrying numerical values to indicate measured physical quantities was suggested by Simon Stevin (1580–1647), a French mathematician. “I often say that there are two domains where one can speak of science, and regard it as numbers, one should have something above it, that others can count on, give it a number, and knowledge is of a higher and nobler nature than is that for the beginning of knowledge that one has merely in one thought, abstracted to the state of science.”

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