

10 mm = 1 cm, 1 km = 1000 m). Measurements are easily expressed in decimals and scientific notation, making them more suitable for electronic calculation. Conversion factors vary widely in the U.S. customary system (1 ft = 12 in, 1 mi = 5280 ft), resulting in much more to remember. There are also advantages in better standards with the metric system, which is now accepted internationally by the scientific community.

The main disadvantage of the metric system is that it is still not used commonly in many parts of the U.S., so a significant number of Americans are unfamiliar with basic units and amounts. (Typical highway speeds, weights, and distances are all more commonly known in U.S. customary units.) Many tools and parts have been standardized using the U.S. customary system, so change would require a large investment in retooling.

Q1.8 The use of ratios is appropriate here. First look at the ratio of the galaxy diameters to that of the pie tins. We can use this ratio as a conversion factor to determine the distance between pie tins.

$$\frac{20 \text{ cm}}{2 \times 10^5 \text{ ly}} = 10^{-4} \text{ cm/ly}$$

$$(10^{-4} \text{ cm/ly})(2.5 \times 10^6) = 250 \text{ cm} = \boxed{2.5 \text{ m}}$$

Q1.9 At first glance one might be prone to say only two significant figures, since the value appears to have only two significant figures. However the football field is defined to be this length and so it should be at least be accurate down to the yard. This means this should be written with three significant figures. This shows the advantage of scientific notation—this value would best be written as $1.20 \times 10^5 \text{ m}$ to show the third significant figure.

PROBLEMS

[Reasoning] P1.1 Recognize the principle. Apply the concepts of scientific notation and significant figures.

Sketch the problem. No sketch is needed for this problem.

Identify the relationships. The height of the top floor of the Empire State Building can be found by multiplying the number of floors (102) by the height of each floor. The height of a floor is not given, so we need to estimate it. Based on personal experience, the height of a single floor is about 4 m. Once we have a value of the height of the 102nd floor, we can then divide by the thickness of a sheet of paper (which is given) to find the number of sheets.

Solve. The height of floor 102 of the Empire State Building is approximately $102 \times 4 = 400 \text{ m}$ tall. Dividing this by the thickness of paper, $6 \times 10^{-3} \text{ m}$, we can find how many pieces of paper there would be:

$$\frac{400 \text{ m}}{6 \times 10^{-3} \text{ m}} = \boxed{7 \times 10^6 \text{ pieces of paper}}$$

What does it mean? It would take about 7 million pieces of paper to make a stack as tall as the Empire State Building. Since the thickness of a piece of paper was only given to one significant figure and we only estimated the height of a single floor, the final answer should also have only one significant figure.

P1.2 Recognize the principle. The number of grains of sand in the shoe can be found by dividing the total volume by the volume of a typical grain of sand.

College Physics 2nd Edition Solutions Manual

Richard Wolfson



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