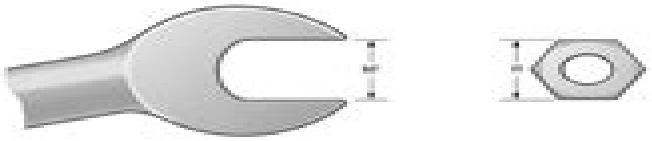
Problem 1.6 Suppose that you have just purchased a Ferrari F355 coupe and you want to know whether you can use your set of SAE (U.S. Customary Units) wrenches to work on it. You have wrenches with widths w = 1/4 in, 1/2 in, 3/4 in, and 1 in, and the car has nuts with dimensions n = 5 mm, 10 mm, 15 mm, 20 mm, and 25 mm. Defining a wrench to fit if w is no more than 2% larger than n, which of your wrenches can you use?



Solution: Convert the metric size n to inches, and compute the percentage difference between the metric sized nut and the SAE wrench. The results are:

$$5\text{ mm}\left(\frac{1\text{ inch}}{25.4\text{ mm}}\right) = 0.19685\ldots\text{ in.}\quad \left(\frac{0.19685 - 0.25}{0.19685}\right)100 = -27.0\%$$

$$10\text{ mm}\left(\frac{1\text{ inch}}{25.4\text{ mm}}\right) = 0.3937\ldots\text{ in.}\quad \left(\frac{0.3937 - 0.5}{0.3937}\right)100 = -27.0\%$$

$$15\text{ mm}\left(\frac{1\text{ inch}}{25.4\text{ mm}}\right) = 0.5905\ldots\text{ in.}\quad \left(\frac{0.5905 - 0.5}{0.5905}\right)100 = +15.3\%$$

$$20\text{ mm}\left(\frac{1\text{ inch}}{25.4\text{ mm}}\right) = 0.7874\ldots\text{ in.}\quad \left(\frac{0.7874 - 0.75}{0.7874}\right)100 = +4.7\%$$

$$25\text{ mm}\left(\frac{1\text{ inch}}{25.4\text{ mm}}\right) = 0.9843\ldots\text{ in.}\quad \left(\frac{0.9843 - 1.0}{0.9843}\right)100 = -1.6\%$$

A negative percentage implies that the metric nut is smaller than the SAE wrench; a positive percentage means that the nut is larger then the wrench. Thus within the definition of the 2% fit, the 1 in wrench will fit the 25 mm nut. **The other wrenches cannot be used.**

Problem 1.7 Suppose that the height of Mt. Everest is known to be between 29,032 ft and 29,034 ft. Based on this information, to how many significant digits can you express the height (a) in feet? (b) in meters?.

Solution:

a) $h_1 = 29032$ ft

$h_2 = 29034$ ft

The two heights are equal if rounded off to four significant digits. The fifth digit is not meaningful.

Four: $h = 29{,}030$ ft

b) In meters we have

$$h_1 = 29032\text{ ft}\left(\frac{1\text{ m}}{3.281\text{ ft}}\right) = 8848.52\text{ m}$$

$$h_2 = 29034\text{ ft}\left(\frac{1\text{ m}}{3.281\text{ ft}}\right) = 8849.13\text{ m}$$

These two heights are equal if rounded off to three significant digits. The fourth digit is not meaningful.

Three: $h = 8850$ m

Problem 1.8 The maglev (magnetic levitation) train from Shanghai to the airport at Pudong reaches a speed of 430 km/h. Determine its speed (a) in mi/hr (b) ft/s.

Solution:

a) $v = 430\frac{\text{km}}{\text{h}}\left(\frac{0.6214\text{ mi}}{1\text{ km}}\right) = 267\text{ mi/h}$ $\boxed{v = 267\text{ mi/h}}$

b) $v = 430\frac{\text{km}}{\text{h}}\left(\frac{1000\text{ m}}{1\text{ km}}\right)\left(\frac{1\text{ ft}}{0.3048\text{ m}}\right)\left(\frac{1\text{ h}}{3600\text{ s}}\right) = 392\text{ ft/s}$

$\boxed{v = 392\text{ ft/s}}$

Problem 1.9 In the 2006 Winter Olympics, the men's 15-km cross-country skiing race was won by Andrus Veerpalu of Estonia in a time of 38 minutes, 1.3 seconds. Determine his average speed (the distance traveled divided by the time required) to three significant digits (a) in km/h; (b) in mi/h.

Solution:

a) $v = \dfrac{15\text{ km}}{\left(38 + \frac{1.3}{60}\right)\text{ min}}\left(\dfrac{60\text{ min}}{1\text{ h}}\right) = 23.7\text{ km/h}$ $\boxed{v = 23.7\text{ km/h}}$

b) $v = (23.7\text{ km/h})\left(\dfrac{1\text{ mi}}{1.609\text{ km}}\right) = 14.7\text{ mi/h}$ $\boxed{v = 14.7\text{ mi/h}}$

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