

As a class, we will create a program that will read an integer number of inches and return the minimum number of miles, yards, feet and remaining inches. This program will use the “\” division symbol and the “mod” function. These functions are explained below:

The “\” will divide two numbers but drop any decimal places and only keep the integer value.

For example, $8/5 = 1.6$ but if you use $8\5$ the answer will be 1

How many full years in 9564 days? Ans = $9564 \ 365 = 26$

To complete this program of inches to yards and feet we also need to know how many remaining inches there are after converting to yards and then how many are left over after converting to feet.

That can be done using the modulus function; it keeps the remainder after a division.

For example, $8 \bmod 5$ will return the number 3 (it is old school division – 5 goes into 8 once with a remainder of 3).

From the above example 9564 days is 26 full years, but if we want how many days are left over we type $9564 \bmod 365$ and will get an answer of 74 days.

So 9564 days is 26 years and 74 days.

For the class program 1 mile = 63360 inches, 1 yard = 36 inches, 1 foot = 12 inches.