

Write a program to convert a U.S. Customary System length in miles, yards, feet and inches to a Metric System length in kilometers, meters, and centimeters. After the number of miles, yards, feet, and inches are read from text boxes, the length should be converted entirely to inches and then divided by 39.37 to obtain the value in meters. The Int function should be used to break the total number of meters into a whole number of kilometers and meters. To convert textbox entries to a numeric value, use the CDBl method rather than the Val method. Use 5 miles, 20 yards, 2 feet, and 4 inches for a sample run. It should yield a result of 8 kilometers, 65 meters, and 73.5 centimeters. Remember to use meaningful names for all objects and comment your code. Some of the needed formulas are as follows:

$$\text{Total inches} = 63360 * \text{miles} + 36 * \text{yards} + 12 * \text{feet} + \text{inches}$$
$$\text{Total meters} = \text{total inches} / 39.37$$
$$\text{Kilometers} = \text{Int}(\text{meters} / 1000)$$

This program is due on Tuesday, September 18, 2001. Late programs will not be accepted unless prior arrangement has been made with the instructor.