



TDDBUDDY.COM

## Metric Converter

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### *The Kata*

You are to write a metric to imperial unit converter. The code should only focus on the algorithms, no need to need to worry about a UI.

There are four types of conversion to be implement:

- Kilometers to Miles
  - Takes kilometers to convert and returns the result in miles
  - For conversion use 1 kilometer = 0.621371 miles
- Celsius to Fahrenheit
  - Takes the temperature in Celsius and returns the result in Fahrenheit
  - For conversion use the following formula
    - $(\text{TempatureInCelsius} * 1.8) + 32$  E.g  $30C * 1.8 + 32 = 86F$
- Kilogram to Pound
  - Takes the number of kilograms to and returns pounds.
  - For conversion use the following formula
    - $(\text{Kilograms} / 0.45359237)$ . E.g  $5\text{kg} / 0.45359237 = 11.02311310$  pounds
- Liters to Gallons
  - Takes number of liters to convert and the TargetUnit (Either US or UK)
  - Handles conversion to both US and UK gallon
  - For US gallon use 3.785411784 liters = 1 US gallon
  - For UK gallon use 4.54609 liters = 1 UK gallon