* 1. Create a program to prompt the user for hours and rate per hour and then calculate and display their weekly, monthly, and annual gross pay (hours \* rate). Base monthly and annual calculations on 12 months per year and 52 weeks per year.[[1]](https://press.rebus.community/programmingfundamentals/chapter/practice-data-and-operators/#footnote-134-1)

Input

Get hours, rate

Processing

Weekly Pay = hours x rate

Monthly pay = weekly pay x 4

Annual pay = weekly pay x 52

Output

Display weekly pay, monthly pay, annual pay

* 1. Create a program that asks the user how old they are in years, and then calculate and display their approximate age in months, days, hours, and seconds. For example, a person 1 year old is 12 months old, 365 days old, etc.
  2. Review [MathsIsFun: US Standard Lengths](http://www.mathsisfun.com/measure/us-standard-length.html). Create a program that asks the user for a distance in miles, and then calculate and display the distance in yards, feet, and inches, or ask the user for a distance in miles, and then calculate and display the distance in kilometers, meters, and centimeters.
  3. Review [MathsIsFun: Area of Plane Shapes](http://www.mathsisfun.com/area.html). Create a program that asks the user for the dimensions of different shapes and then calculate and display the area of the shapes. Do not include shape choices. That will come later. For now, just include multiple shape calculations in sequence.
  4. Create a program that calculates the area of a room to determine the amount of floor covering required. The room is rectangular with the dimensions measured in feet with decimal fractions. The output needs to be in square yards. There are 3 linear feet (9 square feet) to a yard.
  5. Create a program that helps the user determine how much paint is required to paint a room and how much it will cost. Ask the user for the length, width, and height of a room, the price of a gallon of paint, and the number of square feet that a gallon of paint will cover. Calculate the total area of the four walls as 2 \* length \* height + 2 \* width \* height Calculate the number of gallons as: total area / square feet per gallon Note: You must round up to the next full gallon. To round up, add 0.9999 and then convert the resulting value to an integer. Calculate the total cost of the paint as: gallons \* price per gallon.
  6. Review [Wikipedia: Aging in dogs](https://en.wikipedia.org/wiki/Aging_in_dogs). Create a program to prompt the user for the name of their dog and its age in human years. Calculate and display the age of their dog in dog years, based on the popular myth that one human year equals seven dog years. Be sure to include the dog’s name in the output, such as:  
     Spike is 14 years old in dog years.

**References**