

CPS 210 - Lab Quiz 4 Rubric

Name: _____

1. Let's say you are creating a web application for a dietitians's office and must have the ability to calculate daily protein needs for a patient. The formula below is used to determine protein needs:

$$\text{Protein Needs} = \text{weight in kilograms} * \text{protein factor}$$

The following calculates a person's protein factor:

Normal Daily activity: **0.8gm/kg/day**

Moderate Daily physical activity: **1.2 gm/kg/day**

Heavy daily physical activity: **1.5 gm/kg./day**

1. Use Scanner to ask a user for their weight in **pounds**. 1 pound is 0.45359 kilograms.
2. Use Scanner to ask a user for their activity level. Users should enter 1 for normal activity, 2 for moderate physical activity, and 3 for heavy physical activity.
3. Calculate the protein needs with the given information. Below is a sample run:

Enter weight in pounds: **150**

How active are you daily?

For normally active, enter 1. For moderately active, enter 2. For heavily active, enter 3: **2**

Your daily protein needs are 81.6462 grams.