Understanding and Calculating Body Mass Index

BMI is a calculation of weight (in kilograms) over height squared (in centimeters). To calculate an individual who is 5'2" and weighs 136 pounds (lbs) perform the following:

Step 1. Multiply the weight in pounds by **0.45** (metric factor conversion)

136 X 0.45 = 61.2 kg

Step 2. Multiply the height (in inches) by **0.025** (metric conversion factor)

62" x 0.025 = 1.55 m

Step 3. Square the answer from step 2

 $1.55 \text{ m}^2 = 2.48025$

Step 4. Divide the answers from step 1 by the answer from step 3

61.2 / 2.48025 = 24.675

Result. The BMI for an individual who is 5'2'' in height and weighs 136 lbs = 24.675, approximately 25.

Underweight Below 18.5

Healthy weight 18.5 to 24.9 [normal]

 Overweight
 25 to 29.9

 Obese
 30 or higher

 Obesity (Class I)
 30 to < 35</td>

 Obesity (Class II)
 35 to < 40</td>

Obesity (Class III) > 40 ("extreme" or "severe")