

LABORATORY 9.1

Name	Date
Instructor	Section
Determining	Ideal Body Weight Using Percent
Body Fat and	the Body Mass Index
your ideal body weight u measurements.) Method	nt ways to compute an ideal body weight. Method A of this laboratory enables you to compute and record sing skinfold measurements. (In Chapter 6 we discussed body fat percentage estimated from skinfold B enables you to calculate and record your ideal body weight using the body mass index (BMI) procedure of these techniques, and complete the appropriate section.
METHOD A: COMP	UTING IDEAL BODY WEIGHT USING PERCENT BODY FAT
STEP 1: Calculate fat-	free weight
100% Therefore,	- your percent body fat estimated from skinfold measurement $=$ $%$ fat-free weight
*	% fat-free weight expressed as a decimal × your body weight in pounds Calculate = pounds of fat-free weight
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STEP 2: Calculate opti	
	y fat ranges are 8%–19% for men and 21%–32% for women. Optimal weight = fat-free weight \div (1.00 – nal % fat expressed as a decimal. Therefore, the low and high optimal weight ranges for your gender
	For low %fat : Optimal weightpounds
	For high % fat : Optimal weightpounds
METHOD B: COMP	UTING IDEAL BODY WEIGHT USING BODY MASS INDEX (BMI)
The BMI uses the metric meters (1 inch $= 0.0254$	system. Therefore, you must express your weight in kilograms (1 kilogram $=$ 2.2 pounds) and your height in meter).
STEP 1: Compute your	ВМІ
	$BMI = body \ weight \ (kg) \ \div \ (height \ in \ meters)^2$
	Your BMI =
STEP 2: Calculate you	r ideal body weight based on BMI
The ideal BMI is 21.9 to 2	22.4 for men and 21.3 to 22.1 for women. The formula for computing ideal body weight using BMI is
	Ideal body weight (kilograms) = Desired BMI \times (height in meters) ²
	cample as an illustration of the computation of ideal body weight. A man who weighs 60 kilograms and tes his BMI to be 26.7. His ideal BMI is between 21.9 and 22.4; therefore, his ideal body weight range is
	Low end range : 21.9 $ imes$ 2.25 $=$ 49.3 kilograms
	High end of range: 22.4 $ imes$ 2.25 $=$ 50.4 kilograms
Now complete this calcu	lation using your values for BMI.
N	My ideal body weight range using the BMI method is to kilograms.
Note: BMI may not be a g	good method to determine ideal body weight for a highly muscled individual.