Arithmetic HW

- Arthur is a 35 year old man who is moderately active, weighs 150 pounds, and is 5' 8" tall. What is his BMR?
- **14.** Brianna is a 23-year-old very active woman who weighs 130 pounds and is 5' 1" tall. What is her BMR?
- **15.** Caroline is an 80 year old woman, not physically active, who weighs 120 pounds and is 5' 3" tall. What is her BMR?

- 23. What is Brianna's estimated percent body fat?
- 24. What is Caroline's estimated percent body fat?

BMI = weight \div height² × 703

BMI =
$$150 \text{ bs} \div (68 \text{ in})^2 \cdot 703$$

= 22.8
% Body Fat = $1.2 \cdot 22.8 + 0.23 \cdot 35 + 5.4$
 ≈ 41

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- (15) Caroline is an 80 year old woman, not physically active, who weighs 120 pounds and is 5' 3" tall.

 What is her BMR?

BMI = weight
$$\div$$
 height² × 703

Women =
$$(1.2 \times BMI) + (0.23 \times age) - 5.4$$

Men = $(1.2 \times BMI) + (0.23 \times age) + 5.4$

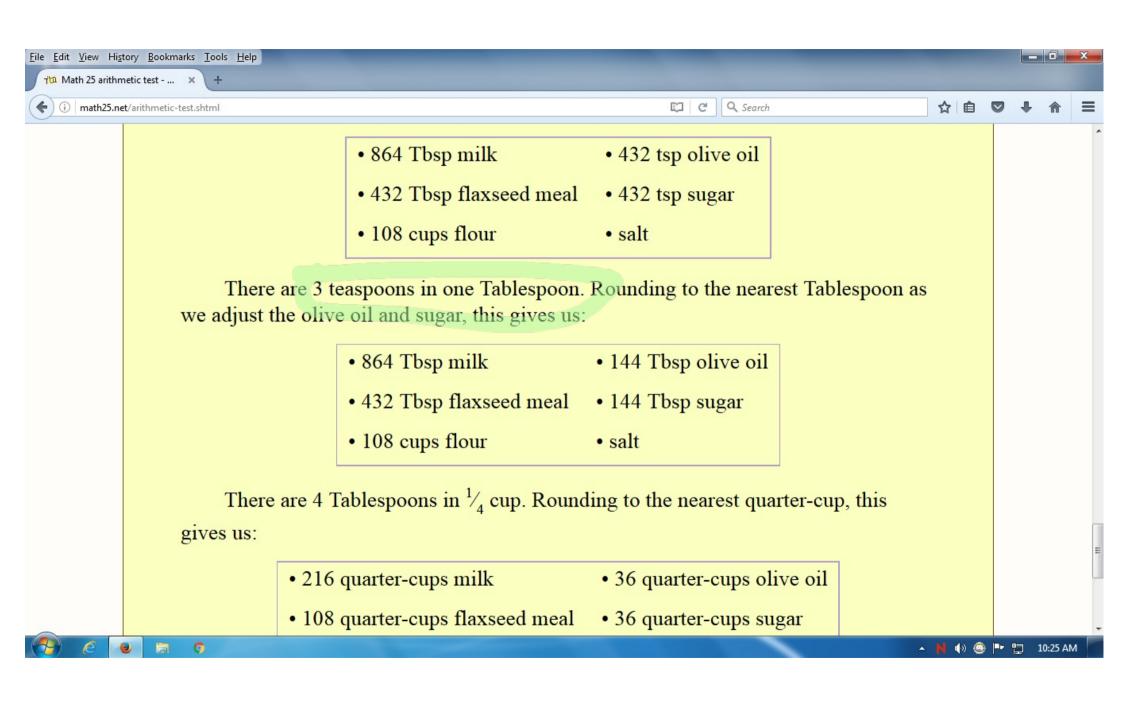
BMI =
$$120 \text{ bs} \div (63 \text{ in})^2 \cdot 703$$
= 21.3

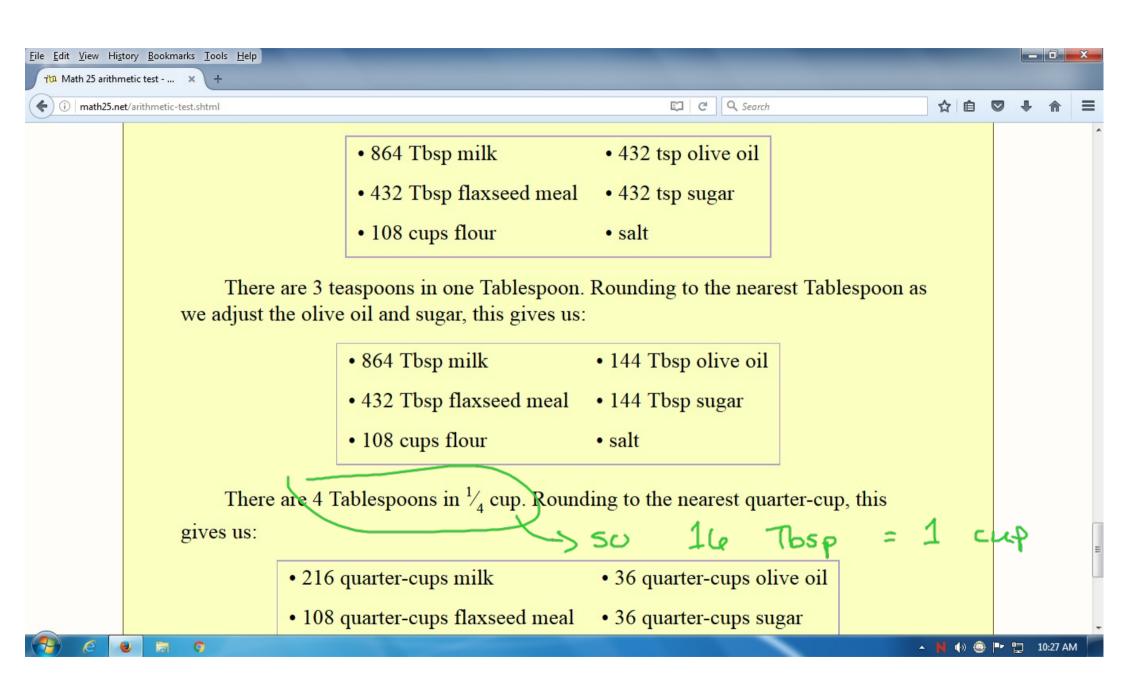


12. Continuing the previous probem, that same friend walks for 1 hour and 8 minutes. Walking burns 0.037 calories per pound per minute. How many calories does your friend burn? To how many 165-calorie *York Peppermint Pattie* candies is this equivalent?

159 lbs · 68 min · 6.037
$$\frac{\text{cal}}{\text{lb·min}} \approx 400 \text{ cal}$$
400 ÷ 165 $\approx 2.4 \text{ candies}$

16. Scale up this simple but yummy single-serving cracker recipe to make 432 servings.





9. One serving of hamburger has 20 grams of fat, 38 grams of carbohydrates (including 9 from sugar), and 22 grams of protein. Change to calories these amounts of fat, carbohydrate, sugar, and protein.

10. Continuing the previous probem, what percentage of the food's calories come from protein?

$$\% = \frac{88}{part} \div \frac{(180 + 152 + 88)}{whole} \approx 0.21 \text{ RIP} = 21\%$$