HW 8.1B Percentage PRACTICE problems

** 3081.50 1) Eduardo deposits \$3000 into a savings account that earns 2.75% annual interest rate. How much money does he have at the end of one year?

2) Brittany deposited a birthday check into a CD that earned 2.0% annual interest rate. After 1 year she had earned \$62 in interest. Assuming she made no additional deposits or withdrawals during the year, how much did she have altogether in her account after 1 year?

$$62 = .02 B$$
 $\frac{3100}{316}$

1078.43 3) Morgan deposits a birthday check into a savings account. A year later she has a total of \$1100. If the interest rate was 2.0%, how much did she deposit?

$$X(1+.08) = 1100$$
 $X = 1078.43$

$$X(1-.xq) = \frac{905}{-71}$$
 $X = 1274.65$

5) Jake's monthly take home pay (net income) is \$1105. If his gross pay (pre-tax) is \$1645, then what is his tax rate?

$$\frac{1645}{1645}(1-p) = \frac{1105}{1645}$$

$$1-p = .67$$

$$1 = .33 \implies 339$$

\$\frac{73.10}{}\$ 6) Serena's receipt shows that she paid \$79.61 for a new pair of jeans including sales tax. The sales tax rate is 8.9%. How much did the jeans cost before taxes?

$$X(1+.089) = 79.61$$
 $\chi = 73.10$

1 Refer to #6. How much did Serena pay in taxes?

b 134.85 8) Jackson went shopping for back to school clothes. His receipt at the Gap shows that he paid \$146.72. The retail tax rate in Gilbert is 8.8%. How much was his subtotal (pre-tax amount)?

$$X(1+.088) = 146.72$$
 $\times = 134.85$

- No) $\frac{438.03}{\text{labeled price of $34.95}}$ 9) At the same Gap that Jackson is shopping, Denise is waiting in line to buy a shirt with a labeled price of \$34.95. She has \$37 and some change in her wallet. Does she have enough money? (What is her total?)
 - good friends like Taylor and Laron, so he treats them to lunch. He also thinks service was great, so he tipped 20%. He paid \$61.71. How much was lunch before the tip?

$$X(1+.20) = 61.71$$
 $V.2$
 $X = 51.43$

11) Stefanie is saving for a new car. She has started a small savings account that earns 2.5% annual interest. She only made the one initial deposit and earned \$22 in interest) What is the balance of her account at the end of one year?

$$A = PB$$
 $22 = .028 B$
 $.025 .025$
 $880 = B(Initial Deposit)$
 $4 22$
 902