

BUTCHER-BUSINESS MATH A –8TH PERIOD – OFF-SITE LEARNING PACKET DAY 1

Instructor: Nancy Butcher

Date: Day 1

Program/Class: BSN Math A

Period: 7, 8

State Indicator/Competency: Calculate expected values and use them to solve problems

Instructional Objective(s):

- Students will be able to calculate the sales tax with 80% accuracy.

Student Materials: Packet 1, pencil, calculator

Method of Instruction: Independent

Activities:

Attached WORKSHEET

Sales Tax – Percentage of the price of an item or a percentage of the total of all taxable items.

Sales Tax = Price of Item X Sales Tax Rate

Total Cost of item = Price of Item + Sales Tax

Example 1: Elise purchased a drone priced at \$185.99. She paid 7.5% sales tax. What amount did she pay in sales tax? What was the total amount Elise paid for the drone?

Solution: $7.5\% = 0.075$

$\$185.99 \times .075 = \13.94925 or $\$13.95$

$\$185.99 + \$13.95 = \$199.94$

Write sales tax as a decimal

Multiply price by rate

Add price and sales tax

Example 2: A service station mechanic took 3 hours to repair a car. The service charge was \$65 an hour. Two parts were replaced at a cost of \$117.98 and \$49.39. A sales tax of 4% is charged on goods, but not on labor. Find the total bill

Solution: $3 \times \$65 = \195

$\$117.98 + \$49.39 = \$167.37$

$\$167.37 \times 0.04 = \6.694 or $\$6.94$

$\$195 + \$167.37 + \$6.69 = \369.06

Cost of nontaxable labor

Add the cost of the taxable parts

Multiply rate by subtotal

Nontaxable labor, cost of parts, + sales tax

Assessment: Worksheet 1: Finding Sales Tax (10 points)

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Finding Sales Tax
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Name _____ **Per** _____

Find the Sales tax and Total cost on each of the items below.

1. Computer scanner, \$99.99 at 5.8%
2. Garden tractor, \$1,568.89 at 3.5%
3. Golf club set, \$635.18 at 2.9%
4. Antique dresser, \$498.89 at 4.6%
5. Mary wants to buy a bed that costs \$695. The city sales tax rate is 7%. In a nearby city the sales tax rate is 4%. How much less would the bed cost if Mary bought it in the nearby city?
6. Robbie has his auto dealer install auto seat covers on his used car. The seat covers cost \$189.99 and installation costs \$45.89. The sales tax rate is 4.7% but is not applied to labor. What is the total cost of the seat covers to Robbie?