**Student Activity Guide: Number Calculations** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 3 Lesson 5

**Directions**

* In section 1, create a JavaScript program to create an online shop. Debug until the program runs correctly. Record the final code you used for each in the space provided below and answer any related questions.
* In section 2, answer the questions.

**Section 1**

Create an on online store. Choose at least three products to sell. Next to each allow the user to type in how many they want.

Label the button “Place your order”.

When the button is clicked, a subtotal and total cost is calculated.

Assume the following:

Shipping and Handling 30%

Tax rate: 5%

**Sample Output:**

\*\* My Favorite Band Store \*\*

Item 1 – Button $1.99 Quantity: 5 $9.95

Item 2 – Poster $5.50 Quantity: 2 $20.00

Item 3 – T-Shirt $12.99 Quatity 3 $38.97

\_\_\_\_\_\_\_

Subtotal: $88.92

Shipping: $26.676

Taxes: $4.446

\_\_\_\_\_\_\_

Order Total: $120.042

**Section 2**

1. In the example above there is a problem with the calculation for both Shipping and taxes. What is it? How could we fix this?
2. What happens if they type in a negative number for the quantity?
3. Someone new has added to the class. How would you explain variables and data types? Why does it make a difference if something is a number or a string?