Application Help 3.2

1. Suppose the length of a rectangle is 2x + 1 and the width is 3x – 2. Find the value of x if the perimeter is equal to 38 inches (Hint: Draw a Picture).

2. The “Ms Blumer Dance School of Ballet” charges $24 per class and a one-time registration fee $150. A student paid a total of $822 dollars. Find the number classes the student took.

3. Shopping in Germany Mr. Nolan likes to shop at the German Grocery Store Wasgau. Unlike at the commissary, costumers usually bring their own bags to carry their groceries home. If you forget , however, you can purchase a bag for .15 cents. Suppose Mr. Nolan buys 83 Kinder-Eggs and 4 bags to carry them home. Mr Nolan pays with two 20-Euro bills and receives $2.05 back in change. Write and equation to find the cost of each Kinder-Egg. Solve your equation.