Math 099 - Quiz 7

October 29, 2018

Name __key__

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Write 4.125% in decimal form.

$$0.04125$$

2. (1 point) Write 1.25 in percent form.

$$125\%$$

3. (2 points) What is 12% of 115?

$$0.12 \times 115 = \boxed{13.8}$$

4. (2 points) What percent of $80 is $5?

$$80x = 5 \Rightarrow x = \frac{5}{80} = 0.0625 = \boxed{6.25\%}$$

5. (2 points) 11% of what is $23?

$$0.11x = 23 \Rightarrow x = \frac{23}{0.11} \approx \boxed{\$209.09}$$

6. (2 points) The advertised price of TI-84 graphing calculator is $124.95. The sales tax rate is 9%. What is the total cost of the calculator?

$$\text{Tax} = 0.09 \times 124.95 = \$11.25$$

$$\text{Total cost} = 124.95 + 11.25$$
$$= \boxed{\$136.20}$$