9 – 5 Vocabulary Terms

*If you place these vocabulary terms on note cards, you will receive extra credit points towards this unit.

1) **Ratio** – A comparison of two numbers by division

   <u>Example:</u>
   $$\frac{3}{4} \quad \text{or } 3:4 \text{ or } 3 \text{ to } 4$$

2) **Percent** – A ratio that compares a number to 100.

   <u>Example:</u>
   a) when writing a fraction as a percent with a denominator being a factor of 100.

   $$\frac{17}{20} = \frac{17(5)}{20(5)} = \frac{85}{100} = 85\%$$

b) When the denominator is not a factor of 100, divide the numerator by the denominator.

$$\frac{3}{8} \qquad 8\overline{)3.00} = .37^{1/2} \qquad 37^{1/2}\%$$

c) When writing each decimal as a percent, move the decimal two place values to the right and add a percent sign.

$$0.43 = 0.\,4\,3\,\% = 43\%$$

d)   When writing a percent as a decimal, move the percent sign two place values to the left, remove the percent sign and add a decimal.

$$74\% = 7\,4\,\% = .74$$

$$0.25\% = 0\,0\,.25\% = 0.0025$$

$$110\% = 1\,1\,0\,\% = 1.1$$

$$8\,^{1/2}\% = 0\,8\,5\,\% = 0.085$$

e) When writing a percent as a fraction, place the number over 100.

$$125\% = \frac{125}{100} = \frac{5}{4} = 1^{1/4}$$

$$3.6\% = \frac{3.6}{100} = \frac{(3.6)(10)}{100(10)} = \frac{36}{1000} = \frac{9}{250}$$

$$\frac{2}{5}\% =$$