

## Prealgebra ~ Lesson 36

Work the following examples as you listen to the recorded lecture.

### Proportions

*Proportion – a comparison of two ratios*

*Hint: Do not confuse working proportions with multiplying fractions.*

*Write the following as proportions:*

Example 1: 1 raisin is to 5 cornflakes as 8 raisins is to 40 cornflakes

Example 2: 20 students is to 5 microscopes as 4 students is to 1 microscope

Determine if the following proportions are true or false:

Example 3:  $\frac{8}{6} = \frac{20}{15}$

Example 4:  $\frac{5}{8} = \frac{4}{7}$

Example 5:  $\frac{2\frac{2}{5}}{\frac{2}{3}} = \frac{\frac{10}{9}}{\frac{1}{4}}$

Solve:

Example 6:  $\frac{x}{3} = \frac{12}{9}$

Example 7:  $\frac{12}{10} = \frac{z}{16}$