

## Beginning Algebra ~ Lesson 23

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

### Proportion Problems

<b>Remember:</b>
Proportion problems look like a fraction equal to another fraction
Solve proportions by cross multiplying.
Do not confuse proportions with multiplying fractions. When multiplying fractions, you cross reduce. When solving proportions, you cross multiply.

Example 1:  $\frac{16}{20} = \frac{z}{35}$

Example 2:  $\frac{12}{10} = \frac{x}{16}$

Example 3:  $\frac{n}{0.6} = \frac{0.05}{12}$

Example 4:  $\frac{12}{\frac{3}{4}} = \frac{48}{n}$

Example 5:  $\frac{x+1}{3x-4} = \frac{3}{8}$

Example 6:  $\frac{11x+2}{3} = \frac{10x-5}{2}$