# NOTES 8.1: RATIOS & PROPORTIONS WITH APPLICATIONS

Objective:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| If , then . \*Cross Multiply!!! | |
| **EXAMPLE 1: Determine whether each pair of ratios forms a proportion.** | |
| **a)** | **b)** |
| **EXAMPLE 2: Solve each of the following proportions.** | |
| **a)** | **b)** |
| You can solve many problems that involve equal ratios/rates by using proportions.  **EXAMPLE 3: Solve using a proportion.** | |
| 1. Josefina sells helium balloons. She charges for balloons. At this rate, what would she charge for balloons? | |
| 1. A photocopy machine copied pages in minutes. At this rate, how long will the machine take to copy pages? | |
| 1. A recent school bond issue passed with out of every votes in favor of the bond. A total of people voted against the bond. How many people voted in favor of the bond? | |