**Lesson #6: Proportion Word Problems**

**CLO: Students will solve for variables using proportions and be able to explain, verbally, in their own words the process for solving proportions.**

**Warm-Up**

**Solve the following proportions**

1. **2.**

**FILL OUT YOUR PLANNER WHEN YOU ARE DONE WITH YOUR WARM-UP**

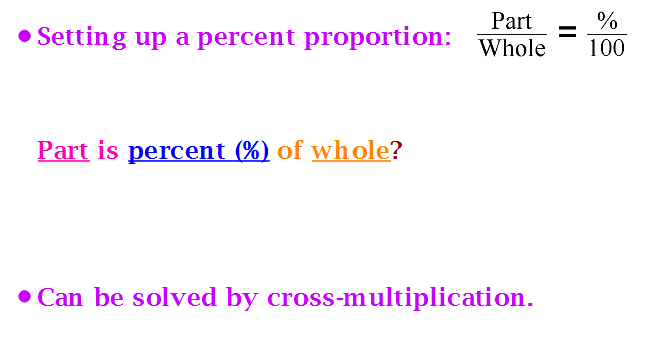
**What are you going to be doing today in class?**

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**Why are you going to be doing this?**

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**Practice:**

1. **The ratio of tagged fish to the total number of fish in a lake is 200 to 2500. What is the percent of the fish that are tagged?**
2. **11% of fish are tagged in a lake. That is 250 tagged fish. How many fish are in the lake?**
3. **What number is 25% of 250?**

**Proportion Word Problems NOT Involving Percents**

**A car travels 320 miles on 12 gallons of gas. Write and solve a proportion to find how many gallons the car needs to travel 640 miles.**

* **Underline important info first!**
* **Use the infor to write ratios! When writing the ratios your units should be in the same location for both ratios.**
* **Set the ratios equal to each other and solve for the unknown!**

**A messenger service has determined that they can get all of their deliveries out each day if they have 6 riders for every 40 square miles they cover. If they want to offer service to a count of 85 square miles, how many drivers must they have?**

* **Underlined info:**
* **Ratios: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Proportion:**