**Unit Conversions Worksheet** Name: \_\_\_\_\_\_\_\_\_

General Formula:

**Unknown Amount (what you are trying to find)**  **= Initial Amount x Conversion Factor**

**Conversion factor** is a fraction where the numerator and denominator are a given quantity expressed in different units. Because numerator and denominator are equal, you can use the reciprocal. Both = 1.

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| **Eg. How many minutes in 3480 seconds?**  Step 1: Find the conversion factor.  Decide which one you need:  Step 2: Multiply or divide as required:  Step 3: Cancel the units (same units from top and bottom)  Step 4: Write the simplified answer with its correct unit. | **Eg. What is the cost of 2 dozen eggs if eggs cost $1.44/dozen?** |

1. If 1 pound = 16 ounces, how many pounds are in 435 ounces?
2. A student averaged 45 miles per hour on a trip. What was the student’s speed in feet per second? (there 5280 feet in a mile)
3. A child is prescribed a dosage of 12 mg of a certain drug per day and is allowed to refill his prescription twice. If there are 60 tablets in a prescription, and each tablet has 4 mg, how many doses are in the 3 prescriptions (original + 2 refills)?
4. An ancient Celtic chicken farmer wished to purchase a gift for his wife. The gift was worth 2 horses. At the local market, 3 horses were worth 5 cows, 1 cow was worth 4 hogs, 3 hogs were worth 4 goats, and 1 goat cost 9 chickens. How much was the gift going to cost the farmer, who had to pay in chickens?
5. Billy Bob raised 60 goats, and then entered into a series of business transactions. He traded all the goats for sheep at an exchange rate of 5 goats for 8 sheep. Next, he exchanged all the sheep for hogs at a rate of 5 sheep for 3 hogs weighing 250 lbs. each. He sold all the hogs at a market price of $55.00 per 100.0 lbs. How much money did he make from the 60 goats?