

Name _____

Period _____

Factor Label Method

Use the factor label method to make each of the following conversions. Refer to your tables for the necessary conversion factors. The first one is done for you but you still need to solve. Watch sig. figs.

1. 143 miles per hour to meters per second

$$\frac{143 \text{ mi}}{1 \text{ hr}} \times \frac{1609 \text{ m}}{1 \text{ mi}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{1 \text{ min}}{60 \text{ sec}} =$$

2. 8.8 feet per second to centimeters per second

3. 12.2 pounds per cubic foot to kilograms per liter

4. 35.8 gallons per minute to liters per second

5. 46 grams per cubic centimeter to pounds per gallon

6. 66.5 kilometers per hour to feet per second

7. 0.48 centimeters per day to inches per year

8. 26 kilograms per liter to pounds per quart