

Lesson 4 Practice Problems

1. Priya's family exchanged 250 dollars for 4,250 pesos. Priya bought a sweater for 510 pesos. How many dollars did the sweater cost?

pesos	dollars
4,250	250
	25
	1
	3
510	

2. Jason's dad is driving at 65 miles per hour when a traffic policeman stops them for not observing the speed limit. The police officer informs them that 10 kilometers is approximately equivalent to 6 miles.

- How many kilometers are there in 1 mile?
- How many miles are in 1 kilometer?
- If the speed limit is 70 kilometers per hour, and Jason's dad was moving at 65 miles per hour, was he exceeding the speed limit? If so, by how much?

3. Lin knows that there are 4 quarts in a gallon. She wants to convert 6 quarts to gallons, but cannot decide if she should multiply 6 by 4 or divide 6 by 4 to find her answer. What should she do? Explain or show your reasoning. If you get stuck, consider drawing a double number line or using a table.

4. Tyler has a baseball bat that weighs 28 ounces. Find this weight in kilograms grams. (Note: 1 kilogram $\approx$ 35 ounces)

5. Identify whether each unit measures length, volume, or weight (or mass).

- | | | |
|----------------------------------|-----------------------------|----------------------------------|
| ☐ Mile | ☐ Liter | ☐ Kilogram |
| ☐ Cup | ☐ Gram | ☐ Teaspoon |
| ☐ Pound | ☐ Pint | ☐ Milliliter |
| ☐ Centimeter | ☐ Yard | |

(From Unit 3, Lesson 1.)

6. A baker uses measurements in grams to determine the amount of ingredients to use for baking. For every 5 grams, there are 1 oz. Convert each ingredient's amount from ounces to grams. Share your thought process or demonstrate your method. You could draw a double number line or table if you're unsure.

- The recipe calls for 40 oz of flour.
- The recipe needs 10 oz of sugar.
- For the icing, you require $\frac{1}{2}$ oz of butter.
- A specific cookie recipe mentions that it needs at least 500 grams of chocolate chips. How much is this in ounces?

7. An ant can travel at a constant speed of 980 inches every 5 minutes.

- How far does the ant travel in 1 minute?
- At this rate, how far can the ant travel in 7 minutes?

(From Unit 2, Lesson 9.)