Converting Metric Units of Mass

Name: _____ Date: _____

📏 **Quick Reference:**

- 1 kg = 1,000 g
- 1 g = 1,000 mg
- 1 kg = 1,000,000 mg

Part A: Basic Conversions

1. 3.5 kg = _____ g
2. 2,400 g = _____ kg
3. 6,000 mg = _____ g
4. 0.75 g = _____ mg
5. 4.2 kg = _____ g
6. 850 g = _____ kg

Part B: Multi-Step Conversions

7. 2.5 kg = _____ mg
8. 3,500,000 mg = _____ kg
9. 0.008 kg = _____ mg
10. 45,000 mg = _____ kg

Part C: Word Problems

11. A recipe requires 250 g of flour and 1.2 kg of sugar. What is the total mass in grams?

Answer: _____

12. A bottle contains 2.5 litres of medicine. Each dose is 5,000 mg. If the medicine has a density of 1 g/mL, how many doses are in the bottle?

Answer: _____

13. Sarah bought 3 bags of rice, each weighing 2.5 kg. What is the total mass in grams?

Answer: _____

14. A jeweller has 45,000 mg of gold. She uses 12.5 g for a bracelet. How many grams of gold remain?

Answer: _____

15. A truck is carrying 4,500 kg of supplies. If each box weighs 15,000 g, how many boxes are there?

Answer: _____