The Freight Train Problem

Conversion Key (Use as Needed)

1 ton = 2000 lb   1 lb = 16 oz   1 kg = 1000 g   1 metric ton = 1000 kg

1 kg ≈ 2.205 lb   1 lb ≈ 0.454 kg   1 metric ton ≈ 2205 lb   1 oz ≈ 28.35 g

A. Cargo Yard Calculations

1. One freight car carries **3.5 tons** of steel. How many **pounds** is that? _____

2. A shipment of wood weighs **28,000 pounds.** How many **tons** is that? _____

3. Each box of tools weighs **4,500 grams.** Convert to **kilograms.** _____

4. A small machine part weighs **12 kilograms.** Convert to **pounds.** _____

B. International Shipping

5. A crate from Japan weighs **1.5 metric tons.** How many **pounds** is that? _____

6. A Canadian shipment lists **750 kilograms** of grain. Convert to **tons.** _____

7. A U.S. crate weighs **880 pounds.** Convert to **kilograms.** _____

8. A heavy engine part weighs **2.2 tons.** Convert to **kilograms.** _____

C. Train Balancing Act

9. Each freight car can carry **35,000 pounds.** If a shipment weighs **15.8 metric tons,** how many cars are needed? _____

10. The entire train hauls **250 tons** of material. How many **kilograms** of cargo is that? _____

Bonus Challenge

11. A shipment of electronics weighs **5,000 kilograms.** Convert to **tons, pounds, and ounces.** _____