

Name _____

Metric in Motion! Conversion Word Problems

When traveling or mailing packages, you often need to convert between **kilograms (kg)**, **grams (g)**, and **milligrams (mg)** to meet weight limits or fill out shipping forms.



Unit	Relationship	Conversion Tip
1 kg	= 1,000 g	Multiply or divide by 1,000 to convert
1 g	= 1,000 mg	1 g is much heavier than 1 mg

1. A small parcel weighs 3.2 kg. How many grams is that? 3.2 kg = _____ g
2. A travel shampoo bottle weighs 250 g. How many kilograms is that? 250 g = _____ kg
3. A letter weighs 45 g. How many milligrams is that? 45 g = _____ mg
4. Your backpack weighs 6.5 kg. How many grams is that? 6.5 kg = _____ g
5. A checked suitcase can weigh up to 23 kg. What is that in grams? 23 kg = _____ g
6. A box of souvenirs weighs 12,000 g. How many kilograms is that? 12,000 g = _____ kg
7. A postcard weighs 4 g. How many milligrams is that? 4 g = _____ mg
8. A laptop has a mass of 2.4 kg. How many grams is that? 2.4 kg = _____ g
9. A camera battery weighs 80 g. How many kilograms is that? 80 g = _____ kg
10. A suitcase weighs 25,000 g. How many kilograms is that? 25,000 g = _____ kg
11. A bottle of perfume weighs 150 g. How many milligrams is that? 150 g = _____ mg
12. A traveler's tablet weighs 650 g. How many kilograms is that? 650 g = _____ kg
13. A set of travel books weighs 4.5 kg. How many grams is that? 4.5 kg = _____ g
14. A phone charger weighs 70 g. How many kilograms is that? 70 g = _____ kg
15. A shipping label shows 2,750 g. How many kilograms is that? 2,750 g = _____ kg
16. A pilot's travel kit weighs 3.25 kg. Convert it to grams. 3.25 kg = _____ g