

# Converting Mass

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Name \_\_\_\_\_

1) Convert 4 ounces into grams

$$4 \text{ oz} \times \frac{28.35 \text{ g}}{1 \text{ oz}}$$

$$\boxed{113.40 \text{ g}}$$

2) Convert 17 pounds into ounces

$$17 \text{ lbs} \times \frac{16 \text{ oz}}{1 \text{ lbs}}$$

$$\boxed{272 \text{ oz}}$$

3) Convert 4.8 imperial tons into pounds

$$4.8 \text{ T} \times \frac{2000 \text{ lbs}}{1 \text{ T}}$$

$$\boxed{9600 \text{ lbs}}$$

4) Convert 9000 pounds into imperial tons

$$9000 \text{ lbs} \times \frac{1 \text{ T}}{2000 \text{ lbs}}$$

$$\boxed{4.5 \text{ T}}$$

5) Convert 50 000 ounces into tons

$$50000 \text{ oz} \times \frac{1 \text{ lbs}}{16 \text{ oz}} \times \frac{1 \text{ T}}{2000 \text{ lbs}}$$

$$\frac{50000}{32000} = \boxed{1.56 \text{ T}}$$

6) Convert 8 lbs 5 oz into ounces

$$8 \text{ lbs} \times \frac{16 \text{ oz}}{1 \text{ lbs}}$$

$$128 + 5$$

$$\boxed{133 \text{ oz}}$$

7) Convert 200 oz into pounds and ounces

$$200 \text{ oz} \times \frac{1 \text{ lbs}}{16 \text{ oz}} = \textcircled{12.5}$$

↓  
lbs

$$12 \text{ lbs} \times \frac{16 \text{ oz}}{1 \text{ lb}} = \textcircled{192}$$

$$\boxed{12 \text{ lbs } 8 \text{ oz}}$$

8) Convert 3400 grams into kg

$$3400 \text{ g} \times \frac{1 \text{ kg}}{1000 \text{ g}}$$

$$\boxed{3.4 \text{ kg}}$$

9) Convert 49 000 000 grams into metric tonnes

$$49\,000\,000\text{g} \times \frac{1\text{ kg}}{1000\text{ g}}$$
$$49\,000\text{kg} \times \frac{1\text{ mT}}{1000\text{ kg}}$$

49t (metric)

10) Convert 17 lbs into kg

$$17\text{lbs} \times \frac{1\text{ kg}}{2.2\text{ lbs}}$$

7.73kg

11) Convert 13 lbs into grams

$$13\text{lbs} \times \frac{1\text{ kg}}{2.2\text{ lbs}} \times \frac{1000\text{ g}}{1\text{ kg}}$$
$$\frac{13000}{2.2} = \boxed{5909.1\text{g}}$$

12) Convert 8 kg into ounces

$$8\text{kg} \times \frac{1000\text{ g}}{1\text{ kg}} \times \frac{1\text{ oz}}{28.35\text{ g}}$$
$$\frac{8000}{28.35} = \boxed{282.1902}$$

13) Convert 3.7 imperial tons into grams.

$$3.7\text{T(imp)} \times \frac{2000\text{ lbs}}{1\text{ T}} \times \frac{16\text{ oz}}{1\text{ lbs}} \times \frac{28.35\text{ g}}{1\text{ oz}}$$

3356640g

14) Convert 5.2 metric tonnes into pounds

$$5.2\text{T(m)} \times \frac{1000\text{ kg}}{1\text{ Tm}} \times \frac{2.2\text{ lbs}}{1\text{ kg}}$$

11440lbs

15) Convert 75 000 000 grams into imperial tons.

$$75\,000\,000\text{g} \times \frac{1\text{ kg}}{1000\text{ g}} \times \frac{2.2\text{ lb}}{1\text{ kg}} \times \frac{1\text{ T}}{2000\text{ lb}}$$
$$\frac{75\,000\,000 \times 2.2}{1000 \times 2000} = \frac{165\,000\,000}{2\,000\,000}$$

82.5T

16) Convert 6 tons into tonnes.

$$6\text{T} \times \frac{2000\text{ lbs}}{1\text{ T}} \times \frac{1\text{ kg}}{2.2\text{ lbs}} \times \frac{1\text{ t}}{1000\text{ kg}}$$
$$\frac{6 \times 2000}{2.2 \times 1000} = \frac{12\,000}{2200}$$

5.45t