

Compare and convert customary units of weight

Compare and convert metric units of weight

Definition:

Converting metric units is being able to convert between different metric units of measurement.

Customary units of weight:

- ❖ Ounce (oz)
- ❖ Pound (lb)
- ❖ Ton (T)

Weight conversion formula:

Weight	
1 pound (lb)	= 16 ounces (oz)
1 ton (T)	= 2000 pounds (lb)
16 ounces (oz)	= 1 pound (lb)
2000 pounds (lb)	= 1 ton (T)



ounce



pound



Ton

To convert from a **larger unit to a smaller unit**,
we need to **multiply**.

Example:

$$1 \text{ pound (lb)} = \mathbf{16 \text{ ounces (oz)}} \quad (\text{multiply by } 16)$$

$$4 \text{ pounds (lb)} = \mathbf{64 \text{ ounces (oz)}}$$

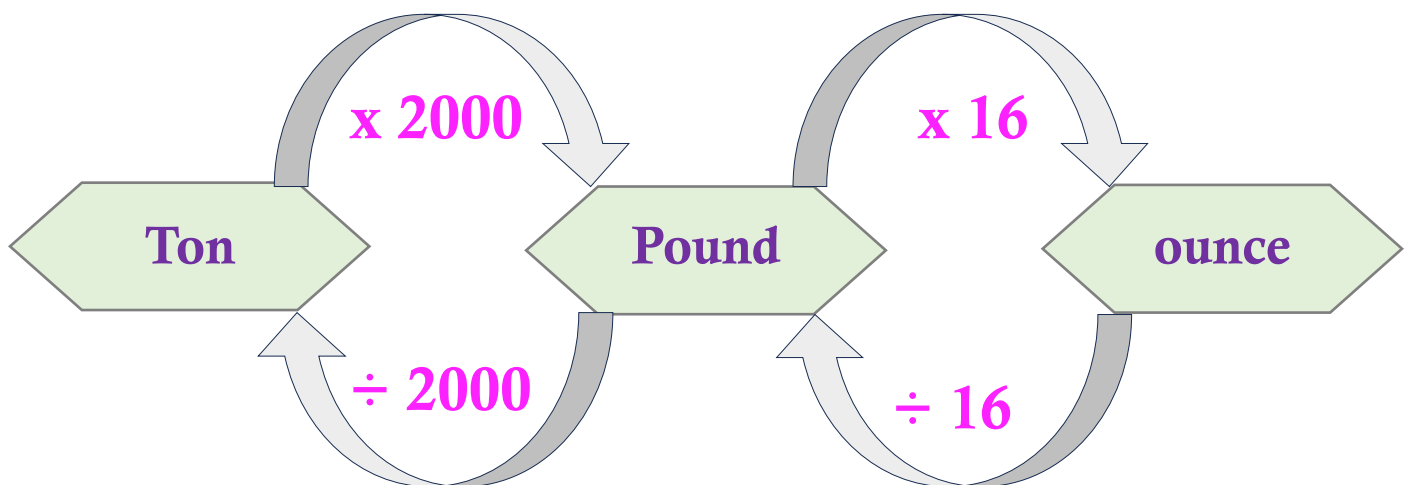
To convert from a **smaller unit to a larger unit**,
we need to **divide**.

Example:

$$2000 \text{ pounds (lb)} = \mathbf{1 \text{ ton (T)}} \quad (\text{divide by } 2000)$$

$$4000 \text{ pounds (lb)} = \mathbf{2 \text{ tons (T)}}$$

Weight conversion formula:



Example : 1

Convert 7 pounds to ounces.



Solution:

The conversion between **pounds and ounces** as follows.

$$1 \text{ pound} = 16 \text{ ounces}$$

To convert pounds to ounces, you have to **multiply the number of pounds with 16.**

$$7 \times 16 = 112 \text{ ounces.}$$

	1	6
		7
1	1	2

Therefore, **7 pounds** are equivalent to **112 ounces**.

Example : 2

Convert 10 pounds to ounces.



Solution:

The conversion between **pounds and ounces** as follows.

$$1 \text{ pound} = 16 \text{ ounces}$$

To convert pounds to ounces, you have to **multiply the number of pounds with 16.**

$$10 \times 16 = 160 \text{ ounces.}$$

	1	0
	1	6
1	6	0

Therefore, **10 pounds** are equivalent to **160 ounces**.

Example : 3

Convert 3 tons to pounds.



Solution:

The conversion between **tons and pounds** as follows.

$$1 \text{ ton} = 2000 \text{ pounds}$$

To convert tons to pounds, you have to **multiply the number of tons with 2000.**

$$3 \times 2000 = 6000 \text{ pounds.}$$

2	0	0	0	
				X
				3
6	0	0	0	

Therefore, **3 tons** are equivalent to **6000 pounds.**

Example : 4

Convert 5 tons to pounds.



Solution:

The conversion between **tons and pounds** as follows.

$$1 \text{ ton} = 2000 \text{ pounds}$$

To convert tons to pounds, you have to **multiply the number of tons with 2000.**

$$5 \times 2000 = 10000 \text{ pounds.}$$

	2	0	0	0	
					X
					5
1	0	0	0	0	

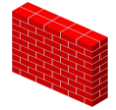
Therefore, **5 tons** are equivalent to **10000 pounds.**

Example : 5

Convert 4000 pounds to tons.



pounds



tons

Solution:

The conversion between **pounds and tons** as follows.

$$2000 \text{ pounds} = 1 \text{ ton}$$

To convert pounds to tons, you have to **divide the number of pounds by 2000**.

$$\frac{4000}{2000} = 2 \text{ tons.}$$

Therefore, **4000 pounds** are equivalent to **2 tons**.

Example : 6

Convert 8000 pounds to tons.



pounds



tons

Solution:

The conversion between **pounds and tons** as follows.

$$2000 \text{ pounds} = 1 \text{ ton}$$

To convert pounds to tons, you have to **divide the number of pounds by 2000**.

$$\frac{8000}{2000} = 4 \text{ tons.}$$

Therefore, **8000 pounds** are equivalent to **4 tons**.



Example : 7

Convert 80 ounces to pounds.



ounces

pounds

Solution:

The conversion between ounces and pounds as follows.

$$16 \text{ ounces} = 1 \text{ pound}$$

To convert ounces to pounds, you can divide the number of ounces by 16.

$$\frac{80}{16} = 5 \text{ pounds.}$$

Therefore, 80 ounces are equivalent to 5 pounds.

Example : 8

Convert 112 ounces to pounds.



ounces

pounds

Solution:

The conversion between ounces and pounds as follows.

$$16 \text{ ounces} = 1 \text{ pound}$$

To convert ounces to pounds, you have to divide the number of ounces by 16.

$$\frac{112}{16} = 7 \text{ pounds.}$$

Therefore, 112 ounces are equivalent to 7 pounds.