

# 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:

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

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

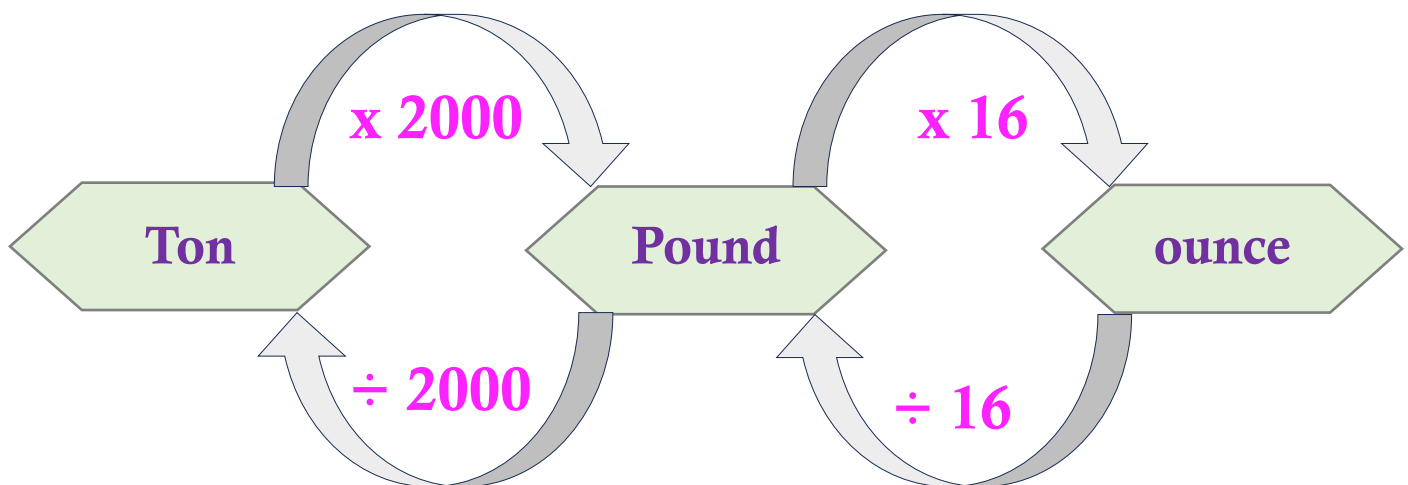
To convert from a smaller unit to a larger unit,  
we need to **divide**.

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.



pounds

ounces

### Solution:

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

There are,

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

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

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

	1	6
<b>X</b>		7
<b>1</b>	<b>1</b>	<b>2</b>

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

## Example : 2

Convert 10 pounds to ounces.



pounds

ounces

### Solution:

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

There are,

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

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

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

	1	0
<b>X</b>		6
<b>1</b>	<b>6</b>	<b>0</b>

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

### Example : 3

Convert 3 tons to pounds.



#### Solution:

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

There are, **1 ton = 2000 pounds**

To convert tons to pounds, you can **multiply the number of tons by 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.

There are, **1 ton = 2000 pounds**

To convert tons to pounds, you can **multiply the number of tons by 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.**

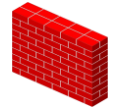


### Example : 5

Convert 4000 pounds to tons.



pounds



tons

#### Solution:

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

There are,

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

To convert pounds to tons, you can **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.

There are,

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

To convert pounds to tons, you can **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.

There are,

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

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.

There are,

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

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

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

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

