

CONVERSIÓN DE UNIDADES



Plantea los factores de conversión y resuelve empleando la información que se te proporciona. Arrastra y suelta las cantidades hasta los cuadros del mismo color. Después realiza la operación y anota el resultado sin unidades.

A) Convertir de mm (milímetros) a Å (Angstroms)

1m = 1000mm 1Å = 10⁻¹⁰m

1 Å	1 Å	10 ⁻¹⁰ m	10 ⁻¹⁰ m	1 m	1 m	1000 mm	1000 mm
-----	-----	---------------------	---------------------	-----	-----	---------	---------

$$0.0721 \text{ mm} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{0.0721 \text{ mm} \times \quad \times \quad}{\quad \times \quad} = \boxed{\quad}$$



B) Convertir de mi (millas) a años luz

1 año luz = 9.461 x 10¹⁵ m 1mi = 1609.3m

59.3 mi	9.461x10 ¹⁵ m	9.461x10 ¹⁵ m	1 año luz	1 año luz	1 mi	1 mi	1609.3 m	1609.3 m
---------	--------------------------	--------------------------	-----------	-----------	------	------	----------	----------

$$59.3 \text{ mi} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad}{\quad \times \quad} = \boxed{\quad}$$



C) Convertir de mg a u.m.a. (unidad de masa atómica)

1 u.m.a. = 1.661x10⁻²⁷ kg 1g = 10³ mg 1kg = 10³ g

1 u.m.a.	1.661x10 ⁻²⁷ kg	1 g	10 ³ mg	1 kg	10 ³ g
1 u.m.a.	1.661x10 ⁻²⁷ kg	1 g	10 ³ mg	1 kg	10 ³ g

$$3.8 \times 10^2 \text{ mg} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad} = \boxed{\quad}$$



D) Convertir de kt (nudos) a km/h

1kt = 0.5144 m/s 1km = 1000m 1 hora = 3600s

1 Kt	0.5144 m/s	1 km	1000 m	1 h	3600 s	
825 kt	1 Kt	0.5144 m/s	1 km	1000 m	1 h	3600 s

$$825 \text{ kt} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad}{\quad \times \quad} = \boxed{\quad}$$



E) Convertir de barriles a m³

1 barril = 158.97L 1m³ = 1000L

1 barril	158.97 L	1 m ³	1000 L	184 barriles	1 barril	158.97 L	1 m ³	1000 L
----------	----------	------------------	--------	--------------	----------	----------	------------------	--------

$$184 \text{ barriles} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad}{\quad} = \boxed{\quad}$$



F) Convertir de km² a acres 1 acre = 4047 m²

1 km	1000 m	1 acre	49 km ²	1000 m	1 km	4047 m ²
1000 m	1 km	4047 m ²		1 km	1000 m	1 acre



$$49 \text{ km}^2 \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad} = \boxed{\quad}$$

G) Convertir de BTU a kcal (kilocaloría) 1 BTU = 1054 J 1 cal = 4.184 J

1 kcal	1 cal	1 BTU	3190 BTU	1 BTU	1 cal	1 kcal
1000 cal	4.184 J	1054 J		1054 J	4.184 J	1000 cal



$$3190 \text{ BTU} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad} = \boxed{\quad}$$

H) Convertir de Lb (libras) a oz (onzas) 1 oz = 28.35 g 1 Lb = 0.454 kg

1 oz	1 Lb	1 kg	120.4 Lb	1 oz	1 Lb	1 kg
28.35 g	0.454 kg	1000 g		28.35 g	0.454 kg	1000 g



$$120.4 \text{ Lb} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad} = \boxed{\quad}$$

I) Convertir de acres a ha (hectáreas) 1 acre = 4047 m² 1 ha = 10000 m²

1 acre	1 ha	1 hm	1 hm	53 acres	1 acre	1 ha	1 hm	1 hm
4047 m ²	1 hm ²	100 m	100 m		4047 m ²	1 hm ²	100 m	100 m

$$53 \text{ acres} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad \times \quad} = \boxed{\quad}$$



J) Convertir de km/h a mi/min (millas/minutos)

1mi= 1609.3m 1km= 1000m 1 hora= 60min

1 km	1 h	1 mi	8.1 $\frac{\text{km}}{\text{h}}$	1 km	1 h	1 mi
1000 m	60 min	1609.3 m		1000 m	60 min	1609.3 m

$$8.1 \frac{\text{km}}{\text{h}} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad} = \boxed{\quad}$$



K) Convertir de g (gramos) a Lb (libras)

1lb= 0.454kg 1kg= 1000g

0.454 kg	1 Lb	1000 g	1 kg	1200 g	1 kg	1000 g	1 Lb	0.454 kg
----------	------	--------	------	--------	------	--------	------	----------

$$1200 \text{ g} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad}{\quad \times \quad} = \boxed{\quad}$$



L) Convertir de m³/s a ft³/min (pies cúbicos/minutos) 1ft= 0.3048m 1min= 60s

1 ft	1 ft	1 ft	1 min	118 $\frac{\text{m}^3}{\text{s}}$	1 ft	1 ft	1 ft	1 min
0.3048 m	0.3048 m	0.3048 m	60 s		0.3048 m	0.3048 m	0.3048 m	60 s

$$118 \frac{\text{m}^3}{\text{s}} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad \times \quad \times \quad} = \boxed{\quad}$$



M) Convertir de kg/cm² a Lb/in² (libras/pulgadas cuadradas)

1Lb= 0.454kg 1in= 0.0254m 1m= 100cm

1 Lb	1 in	1 in	1 m	1 m	1	1	1	1	1
0.454 kg	0.0254 m	0.0254 m	100 cm	100 cm	0.454	0.0254	0.0254	100	100

$$75 \frac{\text{kg}}{\text{cm}^2} \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) \left(\frac{\quad}{\quad} \right) = \frac{\quad \times \quad \times \quad \times \quad \times \quad \times \quad}{\quad \times \quad \times \quad \times \quad \times \quad \times \quad} = \boxed{\quad}$$

