

International System of Units (SI System) aka Metric System

Prefix	decimal equivalent	exponential equivalent	
Pico (p)	0.000000000001	10^{-12}	
Nano (n)	0.000000001	10^{-9}	
Micro (μ)	0.000001	10^{-6}	
Milli (m)	0.001	10^{-3}	
Centi (c)	0.01	10^{-2}	
Deci (d)	0.1	10^{-1}	
no prefix	1.0	10^0	⇨ Meter, Liter, Gram
Deka (da)	10.0	10^1	
Hecto (h)	100.0	10^2	
Kilo (k)	1000.0	10^3	
Mega (M)	1,000,000.	10^6	
Giga (G)	1,000,000,000.	10^9	

Divide

Multiply

King (Kilo) Henry (Hecto) Died (Deka) Monday (Metric Unit) Drinking (Deci) Chocolate (Centi) Milk (Milli)

Factor Labeling Method Example:

Step 1. Show what you are given on the left, and what units you want on the right.

$$90 \text{ min} = ? \text{ hrs}$$

Step 2. Insert the required conversion factors to change between units. In this case we need only one conversion factor, and we show it as the fraction, 1hr/60min. We put the units of minutes on the bottom so that they will cancel out with the minutes on the top of the given.

$$90 \text{ min} \times \frac{1 \text{ hr}}{60 \text{ min}} = ? \text{ hrs}$$

Step 3. Cancel units where you can, and solve the math.

$$90 \cancel{\text{ min}} \times \frac{1 \text{ hr}}{60 \cancel{\text{ min}}} = 1.5 \text{ hrs}$$