

next reference 1.5 - 1.8

scientific notation
#1 → 10 x 10ⁿ

6020000000000000000000000.
↑
6.02 x 10²³ 6 0 2 23

0.00663
↑
6.63 x 10⁻²⁴

DIMENSIONAL ANALYSIS "Watch your units"

$\frac{2xh}{ed} \times \frac{ef}{abh} =$

How many years are in 17 minutes?

$17 \cancel{\text{min}} \times \frac{1 \cancel{\text{hrs}}}{60 \cancel{\text{min}}} \times \frac{1 \cancel{\text{days}}}{24 \cancel{\text{hrs}}} \times \frac{1 \text{ yrs}}{365 \cancel{\text{days}}} = 3.234398728 \times 10^{-5}$
3.23 x 10⁻⁵ yrs

MIXED UNITS per ÷

~~mph~~ $\frac{\text{miles}}{\text{hr}}$ km/hr

How many feet per second is 40 miles per hour?

$\frac{40 \cancel{\text{miles}}}{\cancel{\text{hr}}} \times \frac{5280 \text{ ft}}{1 \cancel{\text{miles}}} \times \frac{1 \cancel{\text{hr}}}{60 \cancel{\text{min}}} \times \frac{1 \cancel{\text{min}}}{60 \text{ sec}} = 58.67 \frac{\text{ft}}{\text{sec}}$

text reference 1.5 - 1.8

scientific notation

#1 → 10 × 10^x

60200000000000000000000000.

↑
6.02 × 10²³ 6 | . | 0 | 2 | 0 | 0 | 0 | 0

0.000663

6.63 × 10⁻³⁴ ↑

DIMENSIONAL ANALYSIS "Watch your units"

$$\frac{\cancel{2d}}{pd} \times \frac{ref}{\cancel{dth}} =$$

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