

1.45 c $\frac{\$ 1.89}{\text{gal}} \rightarrow \frac{\$}{\text{l}}$

| | |
|---------|----------|
| \$ 1.89 | 1 gal |
| gal | 3.7854 l |

\$ 0.50 / l

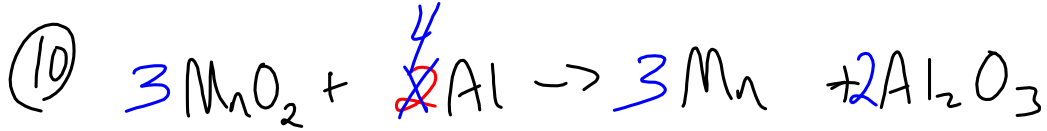
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1.45 d $\frac{0.5 \text{ in}}{\text{ms}} \rightarrow \frac{\text{km}}{\text{hr}}$

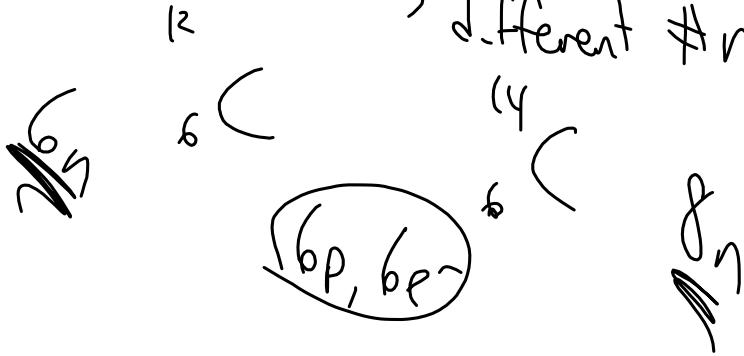
| | | | | | | |
|---------------|---------|-------------------|-------------------|--------------------|-------------------|-------------------|
| 0.5 in | 2.54 cm | 1 m | 1 km | 1000 ms | 60 sec | 60 min |
| ms | 1 in | 100 cm | 1000 m | 1 sec | 1 min | 1 hr |

46.6 km / hr

Sep 9-7:58 AM



ISOTOPE - Same #p \Rightarrow Same element
 different #n (different mass)



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| | | |
|--|--|---|
| 6×10^{22} molecules H_2O | 1 mole H_2O | 18 g H_2O |
| | 6×10^{23} molecules H_2O | 1 mole H_2O |

18 g H_2O

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(14) ~~Molarity = $\frac{\text{moles of solute}}{\text{l of solution}}$~~

Moles = M * l

concentration

Sep 9-8:13 AM

Dilution

moles start = moles end.

(M) * l = M * l

(1M) * 3 * 10⁻² l = (0.2M) * (0.150 l)

Sep 9-8:16 AM

Intensive vs extensive

Mass
IN dependant.

Color

Mass dependant

Sep 9-8:22 AM

Homogeneous vs Heterogeneous

Same throughout.

element
Compound
Solution

Mixture

different

Homogeneous mixture

NaCl

H_2O

M_2O

Sep 9-8:25 AM

1.43 c+d
1.47 all

Sep 9-8:28 AM