



$$\textcircled{12} \quad \text{C}_5\text{H}_8\text{O}_2 \quad \% \text{C} \quad \frac{\text{PART}}{\text{WHOLE}} \times 100$$

$$\frac{\text{C}_5}{\text{C}_5\text{H}_8\text{O}_2} \times 100 \quad \frac{5(12)}{5(12) + 8(1) + 2(16)} \times 100$$

$60\%$

Sep 11-8:56 AM

$$\textcircled{14} \quad \text{MOLARITY} = \frac{\text{moles of solute}}{\ell \text{ of solution}}$$

$$\frac{M}{1} = \frac{\text{moles}}{\ell}$$

$$\text{Moles} = M * \ell$$

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(13)

$6 \times 10^{22}$ Molecules $H_2O$	$1$ Mole $H_2O$	$18g$ $H_2O$	= $1.8g$ $H_2O$
	$6 \times 10^{23}$ Molecules $H_2O$	$1$ Mole $H_2O$	

Sep 11-9:05 AM

(15) Dilution

~~M = moles~~  
~~l = l~~

Moles start = Moles end

$$M * l = M * l$$

$$(0.2M) (150ml) = 1M (ml)$$

$$30ml * \frac{1 l}{1000 ml} = 0.03 l$$

$3 \times 10^{-2} l$

Sep 11-9:09 AM

$$3000 = 3 \times 10^3$$

$$0.007 = 7 \times 10^{-3}$$

$$\frac{1}{36+44}$$

Sep 11-9:14 AM