

THE MOLE AND AVOGADRO'S NUMBER

Name KEY

One mole of a substance contains Avogadro's Number (6.02×10^{23}) of molecules.

How many molecules are in the quantities below?

1. 2.0 moles	$\frac{2.0 \text{ mole}}{1 \text{ mole}} \times 6.02 \times 10^{23} \text{ molecules}$	$= 1.20 \times 10^{24} \text{ molecules}$
2. 1.5 moles	$\frac{1.5 \text{ mole}}{1 \text{ mole}} \times 6.02 \times 10^{23} \text{ molecules}$	$= 9.03 \times 10^{23} \text{ molecules}$
3. 0.75 mole	$\frac{0.75 \text{ mole}}{1 \text{ mole}} \times 6.02 \times 10^{23} \text{ molecules}$	$= 4.52 \times 10^{23} \text{ molecules}$
4. 15 moles	$\frac{15 \text{ mole}}{1 \text{ mole}} \times 6.02 \times 10^{23} \text{ molecules}$	$= 9.03 \times 10^{24} \text{ molecules}$
5. 0.35 mole	$\frac{0.35 \text{ mole}}{1 \text{ mole}} \times 6.02 \times 10^{23} \text{ molecules}$	$= 2.11 \times 10^{23} \text{ molecules}$

How many moles are in the number of molecules below?

1. 6.02×10^{23}	$\frac{6.02 \times 10^{23} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}} = 1 \text{ mole}$	(By definition!)
2. 1.204×10^{24}	$\frac{1.204 \times 10^{24} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}}$	$= 2.00 \text{ moles}$
3. 1.5×10^{20}	$\frac{1.5 \times 10^{20} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}}$	$= 2.49 \times 10^{-4} \text{ mole}$
4. 3.4×10^{26}	$\frac{3.4 \times 10^{26} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}}$	$= 565 \text{ moles}$
5. 7.5×10^{19}	$\frac{7.5 \times 10^{19} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}}$	$= 1.24 \times 10^{-4} \text{ moles}$

Mole And Avogadros Number Answer Key

R Barnett



Mole And Avogadros Number Answer Key:

Unveiling the Magic of Words: A Report on "**Mole And Avogadros Number Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mole And Avogadros Number Answer Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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