

Name: _____ Date: _____
Chemistry

Worksheet

Calculating Moles and Particles



DIRECTIONS: Describe the following terms.

Avogadro's number -

mole -

representative particle -

DIRECTIONS: Determine the kind of representative particle; then calculate the number of particles present in the given amount.

_____ 1. 4.51×10^{-2} mol methane

_____ 2. 2.00 mol iron(III) nitrate

_____ 3. 5.0×10^{-4} mol silver

DIRECTIONS: Calculate the number of moles for the number of representative particles present.

_____ 4. 12 billion molecules CO_2

_____ 5. 6.02×10^{22} atoms Zn

_____ 6. 2.23×10^{23} formula units Al_2O_3

***"Worry does not empty tomorrow of its sorrow.
It empties today of its strength."***

- Corrie Ten Boom