Determining the Number of Particles:



Particle Types:

- _____
- _____
- •

Converting from number of representative particles to moles and back:

- 1. How many formula units are in 3.50 moles of NaCl?
- 2. How many molecules are in 5.25 moles of water?
- 3. How many moles are in 4.78×10^{22} atoms of Ag?

Molar Mass:

- Use the ______ to get the atomic mass/molar mass
- Represents the number of ______ in ______ in ______
- Converts from ______ to ______

Determine the molar mass of the following compounds/molecules.

- 1. $CaCO_3$
- 2. Strontium hydroxide
- 3. Chlorine gas

Converting with Molar Mass:

1. How many grams are in 3.54 moles of He?

2. How many moles are in 238 g of manganese (II) oxide?

Calculations Using Multiple Steps:

- _____ can convert you to any other unit
- To convert between mass and particles you need to go through ______.

Practice:

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1. How many particles are in 50.0 g of iron (III) oxide? What is the particle type?