

## Lesson 80: Even More Mole Problems

Chemistry with Lab

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How many grams are contained in 0.54 moles of calcium?

Convert 2.54 moles magnesium carbonate to formula units.

What is the mass of  $3.1 \times 10^{20}$  molecules of carbon monoxide?

How many formula units are contained in 0.67 g CaO?

The number of nitrogen molecules in 1.2 moles of  $N_2$  is \_\_\_\_\_.

$1.23 \times 10^{28}$  f.u. of  $Al_2O_3$  = \_\_\_\_\_ grams of  $Al_2O_3$ .

Convert 3.1 moles of water to grams of water.

## Lesson 80: Even More Mole Problems (cont.)

Chemistry with Lab

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What is the mass in grams of  $4.6 \times 10^{21}$  molecules of carbon tetrabromide?

$3.2 \times 10^{23}$  f.u. NaCl = \_\_\_\_\_ grams NaCl.

How many moles of silver is equal to 0.31 grams of silver?

The mass of 2.60 moles of  $\text{SO}_2$  is \_\_\_\_\_.

### BONUS

How many atoms of oxygen are contained in 12.3 kilograms of carbon dioxide?