

## Formula Mass

Formula mass - the sum of the atomic masses of all the atoms in the compound

Mass of $\mathrm{KMnO}_{4}$

There are atoms of Oxygen. You must multiply the mass by $\qquad$ -.

| Formula Mass |
| :--- |
| Formula mass - the sum of the atomic |
| masses of all the atoms in the compound |${\text { Mass of } \mathrm{KMnO}_{4}}^{\text {Mare }}$| There are _- |
| :--- |
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## Check your Understanding

What is the formula mass of sodium sulfate, $\mathrm{Na}_{2} \mathrm{SO}_{4}$ ?

## Check your Understanding

What is the formula mass of sodium chloride, NaCl ?

## Formula Mass

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Formula mass -
Mass of CaS
```



## Percent Composition

Example: What is the percent is Calcium CaS?
Formula Mass of CaS
$C a=40.08$
$S=\underline{32.06}$

$$
=72.14
$$

Mass of element $\times 100$
Formula Mass of compound

$$
\% \mathrm{Ca}
$$



## Another Example

What is the percent composition of lead in lead IV carbonate?

## Check Your Understanding

What is the percent composition of sodium in sodium chloride?

## Check Your Understanding

What is the percent composition of sodium in sodium sulfate?

