

**NUMBER OF ATOMS IN A FORMULA****ANSWERS**

Determine the number of atoms in the following chemical formulas.

1.  $2\text{NaCl}$   $\text{Na} = 2$   $\text{Cl} = 2$
2.  $\text{H}_2\text{SO}_4$   $\text{H} = 2$   $\text{S} = 1$   $\text{O} = 4$
3.  $3\text{KNO}_3$   $\text{K} = 3$   $\text{N} = 3$   $\text{O} = 9$
4.  $\text{CaCl}_2$   $\text{Ca} = 1$   $\text{Cl} = 2$
5.  $4\text{C}_2\text{H}_6$   $\text{C} = 8$   $\text{H} = 24$
6.  $2\text{Ba(OH)}_2$   $\text{Ba} = 2$   $\text{O} = 4$   $\text{H} = 4$
7.  $3\text{NH}_4\text{Br}$   $\text{N} = 3$   $\text{H} = 12$   $\text{Br} = 3$
8.  $4\text{Ca}_3(\text{PO}_4)_2$   $\text{Ca} = 12$   $\text{P} = 8$   $\text{O} = 32$
9.  $2\text{Al}_2(\text{SO}_4)_3$   $\text{Al} = 4$   $\text{S} = 6$   $\text{O} = 24$
10.  $3\text{Mg(NO}_3)_2$   $\text{Mg} = 3$   $\text{N} = 6$   $\text{O} = 18$
11.  $6\text{Cu(NO}_3)_2$   $\text{Cu} = 6$   $\text{N} = 12$   $\text{O} = 36$
12.  $4\text{KMnO}_4$   $\text{K} = 4$   $\text{Mn} = 4$   $\text{O} = 16$
13.  $2\text{H}_2\text{O}_2$   $\text{H} = 4$   $\text{O} = 4$
14.  $3\text{H}_3\text{PO}_4$   $\text{H} = 9$   $\text{P} = 3$   $\text{O} = 12$
15.  $2(\text{NH}_4)_3\text{PO}_4$   $\text{N} = 6$   $\text{H} = 24$   $\text{P} = 2$   $\text{O} = 8$
16.  $2\text{Fe}_2\text{O}_3$   $\text{Fe} = 4$   $\text{O} = 6$
17.  $\text{NaC}_2\text{H}_3\text{O}_2$   $\text{Na} = 1$   $\text{C} = 2$   $\text{H} = 3$   $\text{O} = 2$
18.  $4\text{Mg(C}_2\text{H}_3\text{O}_2)_2$   $\text{Mg} = 4$   $\text{C} = 16$   $\text{H} = 24$   $\text{O} = 16$
19.  $3\text{Hg}_2\text{Cl}_2$   $\text{Hg} = 6$   $\text{Cl} = 6$
20.  $2\text{K}_2\text{SO}_3$   $\text{K} = 4$   $\text{S} = 2$   $\text{O} = 6$