

Download File PDF Answer Key For Counting Atoms In Compound

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ANSWER KEY
Date _____

COUNTING ATOMS WORKSHEET

1. Chemical formulas can have three components.

- The **element symbols**, which are represented by a single uppercase letter, or represented by an uppercase letter followed by a lowercase letter. This tells you the types of elements in the compound.
- The **subscripts**, which are numbers that are found on the lower **right** hand side of each element symbol. This tells you the number of **atoms** of this element in the molecule. If an element symbol has no subscript next to it, then this indicates that there is only **one** atom of this element in the molecule.
- The **brackets**, which surround some groups of atoms indicate that the numbers of all of the atoms inside the bracket need to be **multiplied** by the **subscript** on the outside of the bracket found on the lower **right** hand side of that bracket.

2. Record the number of each atom in each molecule, then record the total number of atoms in the molecule.

A) H ₂ O		B) H ₂ SO ₄		C) NaCl	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	Na	1
O	1	S	1	Cl	1
Total	3	Total	5	Total	2

D) H ₂ SO ₄		E) MgCl ₂		F) CaCO ₃	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	Mg	1	Ca	1
S	1	Cl	2	C	1
O	4	Total	3	O	3
Total	7	Total	3	Total	4

G) H ₂ CO ₃		H) MgCl ₂		I) Al ₂ O ₃	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	Mg	1	Al	2
C	1	Cl	2	O	3
O	3	Total	3	Total	5
Total	6	Total	3	Total	5

J) H ₂ SO ₄		K) H ₂ SO ₄		L) H ₂ SO ₄	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	H	2
S	1	S	1	S	1
O	4	O	4	O	4
Total	7	Total	7	Total	7

M) H ₂ SO ₄		N) H ₂ SO ₄		O) H ₂ SO ₄	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	H	2
S	1	S	1	S	1
O	4	O	4	O	4
Total	7	Total	7	Total	7

P) H ₂ SO ₄		Q) H ₂ SO ₄		R) H ₂ SO ₄	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	H	2
S	1	S	1	S	1
O	4	O	4	O	4
Total	7	Total	7	Total	7

S) H ₂ SO ₄		T) H ₂ SO ₄		U) H ₂ SO ₄	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	H	2
S	1	S	1	S	1
O	4	O	4	O	4
Total	7	Total	7	Total	7

V) H ₂ SO ₄		W) H ₂ SO ₄		X) H ₂ SO ₄	
Element	# of Atoms	Element	# of Atoms	Element	# of Atoms
H	2	H	2	H	2
S	1	S	1	S	1
O	4	O	4	O	4
Total	7	Total	7	Total	7

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