


What's the Difference? Atoms, Molecules, Elements and Compounds


Directions: Complete the section by writing "Atom," "Molecule," "Element," or "Compound" on the line.

- A(n) _____ is the smallest particle of a substance that is made up of two or more atoms.
- A(n) _____ is the smallest particle of any pure element.
- A(n) _____ is a substance that cannot be broken down by simple chemical and physical processes.
- A(n) _____ is the particle known as the building block of matter.
- A(n) _____ is a chemical substance that is made up of two or more different kinds of atoms bonded together.


Directions: Look at each picture below. Each circle represents an atom. If they are touching, they are chemically combined. Each element is represented by a pattern. Write the number of atoms, molecules, elements and compounds for each example on the lines below. The first example has been done for you.

1. 

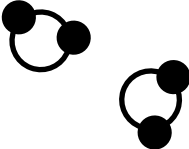
atom	_____ 3 _____
molecule	_____ 1 _____
element	_____ 2 _____
compound	_____ 1 _____

2. 

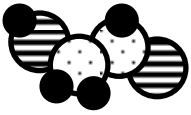
atom	_____
molecule	_____
element	_____
compound	_____

3. 

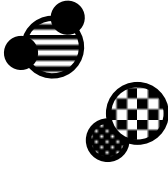
atom	_____
molecule	_____
element	_____
compound	_____

4. 

atom	_____
molecule	_____
element	_____
compound	_____

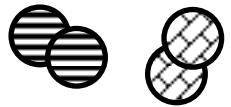
5. 

atom	_____
molecule	_____
element	_____
compound	_____

6. 


atom	_____
molecule	_____
element	_____
compound	_____

7.



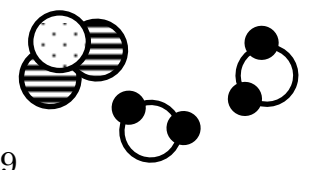
atom _____
 molecule _____
 element _____
 compound _____

8.



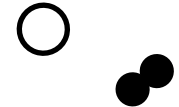
atom _____
 molecule _____
 element _____
 compound _____

9.



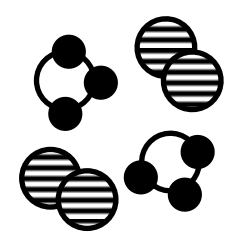
atom _____
 molecule _____
 element _____
 compound _____

10.



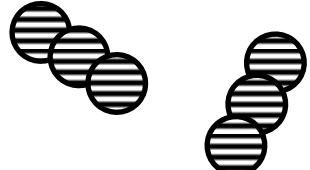
atom _____
 molecule _____
 element _____
 compound _____

11.



atom _____
 molecule _____
 element _____
 compound _____

12.




atom _____
 molecule _____
 element _____
 compound _____

Directions: Use the key to help you choose the correct chemical formula from the list below for each molecule. The first example has been done for you.


H - 	O - 	C - 	N - 
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1.




NH₃


2.




3.




4.



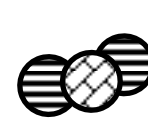
5.



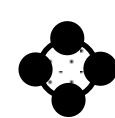
6.



7.



8.



Chemical Formulas

H₂O

CO₂

CO

H₂

CH₄

NH₃

O₃

NO₂