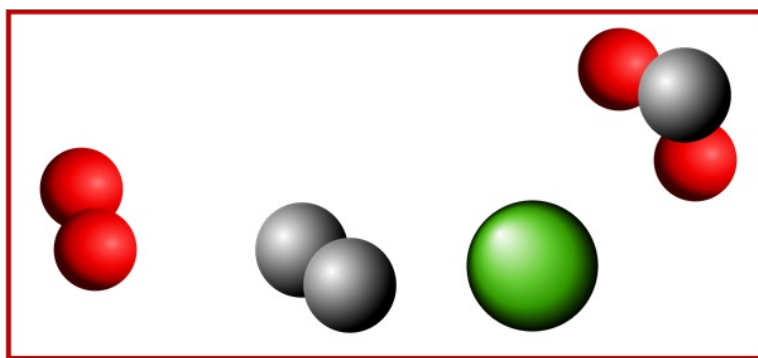


Elements, molecules and compounds

This task is about atoms, elements, molecules and compounds.



In the diagram above, each circle represents one atom. Which row of the table shows the correct number of atoms, molecules, elements and compounds represented in the diagram?

a)

	atom(s)	molecule(s)	element(s)	compound(s)
Row A	1	1	1	3
Row B	1	3	2	1
Row C	8	1	3	1
Row D	8	3	3	1

☐ Row A

☐ Row B

☐ Row C

☐ Row D

b) Chloroform has the formula CHCl_3 . It contains carbon (C), hydrogen (H), and chlorine (Cl).
How many atoms are there in one molecule of CHCl_3 ?

☐ 3

☐ 4

☐ 5

☐ 6

☐ 9

c) Methanol has the formula CH_3OH . It contains carbon (C), hydrogen (H), and oxygen (O).

	carbon	hydrogen	oxygen
Row A	3	4	1
Row B	3	3	1
Row C	1	4	1
Row D	1	4	3
Row E	1	3	1

Which row in the table shows how many of each type of atom there are in one molecule of CH_3OH ?

☐ Row A

☐ Row B

☐ Row C

☐ Row D

☐ Row E