bananalearn

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Atoms, molecules and chemical formulae for Class 9

Practice worksheet - Science · Grade 9

Name: _____ Date: _____

Show your working. Answers are not included in this copy.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. How many atoms are in one O_2 molecule?

2. Is O_2 a compound?

3. How many oxygen atoms are in $4H_2O$?

4. How many total atoms are represented by $2CO_2$?

5. Count oxygen atoms in $Al_2(SO_4)_3$.

6. Are Co and CO the same?

7. Should solid NaCl be described as separate NaCl molecules here?

8. Does a positive ion have excess electrons?

Practice continued

9. Balance Ca^{2+} and O^{2-} into a simplest formula.

10. Balance Na^{+} and O^{2-}.

11. Find relative molecular mass of H_2 using H = 1.

12. Find relative molecular mass of CH_4 using C = 12 and H = 1.

13. Why may an open reaction container lose measured mass?

14. Does a coefficient change a substance's formula?