

**Homework – Moles! – Version B**  
(show all your work if applicable!)



1. What is the definition of a mole?
2. If you have a dozen oranges, how many oranges do you have?
3. If you have a mole of milkshakes, how many milkshakes do you have?
4. If you have a mole of nitrogen atoms, how many nitrogen atoms do you have?
5. How much does a mole of oxygen atoms weigh?
6. How much does a mole of copper atoms weigh?
7. How much does a mole of iron weigh?
8. What is the molecular weight of  $\text{Cu}_2\text{O}$  (copper I oxide)?
9. What is the molecular weight of  $\text{Fe}_2\text{O}_3$  (iron III oxide)?

**Bonus:** How much does 1.5 moles of iron III oxide weigh?