

Do the following conversions using dimensional analysis.

1. 15 grams of sodium phosphate to moles. (.091 moles)
2. 80 grams of sodium hydroxide to moles (2 moles)
3. 1.204×10^{24} molecules of water to grams. (36 grams)
4. 12 moles of sodium chloride to formula units. (7.22×10^{24} fu)
5. 196 grams of phosphoric acid (H_3PO_4) to molecules. (1.2×10^{24})
6. 50.0 grams of calcium carbonate to formula units. (3.01×10^{23} fu)
7. 25 moles of magnesium nitride to grams. (2500 grams)
8. 25 grams of iron (III) oxide to formula units. (9.4×10^{22} fu)
9. 3 moles of iron (III) sulfate to grams. (1200 grams)