

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.  $1.204 \times 10^{24}$  molecules of water to grams.

36 GRAMS

4. 12 moles of sodium chloride to formula units.

$7.2 \times 10^{24}$  FORMULA UNITS

5. 196 grams of phosphoric acid to molecules.

$1.20 \times 10^{24}$  MOLECULES

6. 50.0 grams of calcium carbonate to formula units.

$3.01 \times 10^{23}$  FORMULA UNITS

7. 25 moles of magnesium nitride to grams.

2525 GRAMS

8. 25 grams of iron (III) oxide to formula units.

$9.4 \times 10^{22}$  FORMULA UNITS

9. 3 moles of iron (III) sulfate to grams.

1200 GRAMS