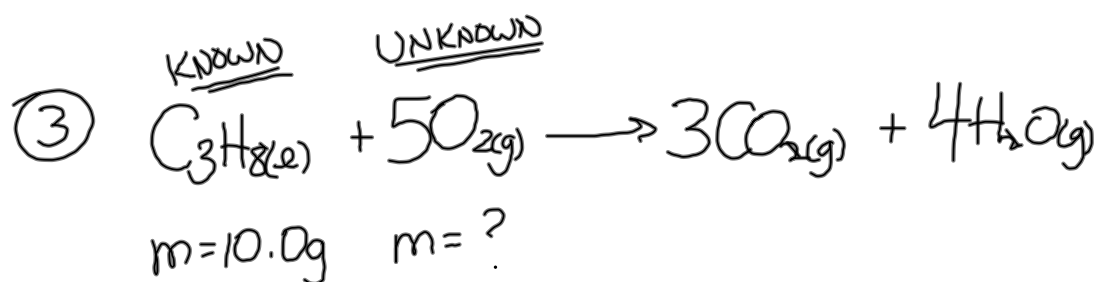


Homework - Worksheet



Step 1: Moles Known

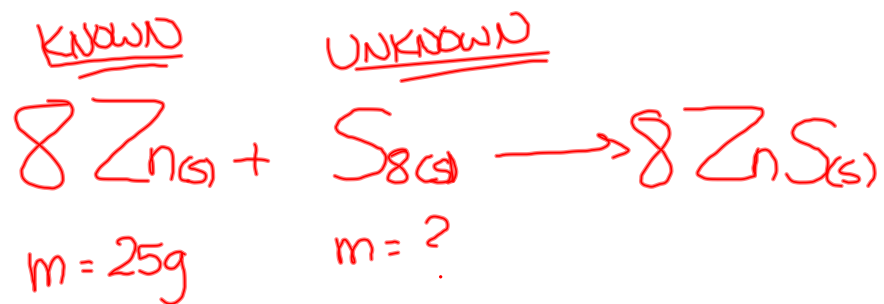
$$10.0\text{g C}_3\text{H}_8 \times \frac{1 \text{ mol C}_3\text{H}_8}{44.11 \text{ g C}_3\text{H}_8} = 0.2267 \text{ mol C}_3\text{H}_8$$

Step 2: Moles Unknown

$$0.2267 \text{ mol C}_3\text{H}_8 \times \frac{5 \text{ mol O}_2}{1 \text{ mol C}_3\text{H}_8} = 1.1335 \text{ mol O}_2$$

Step 3: Mass Unknown

$$1.1335 \text{ mol O}_2 \times \frac{32.00 \text{ g O}_2}{1 \text{ mol O}_2} = \boxed{36.3 \text{ g O}_2}$$



$$25\text{g Zn} \times \frac{1 \text{ mol Zn}}{65.38\text{g Zn}} \times \frac{1 \text{ mol S}_8}{8 \text{ mol Zn}} \times \frac{256.48\text{g S}_8}{1 \text{ mol S}_8}$$
$$= \boxed{12\text{g S}_8}$$

Worksheet #2 - Gravimetric Stoichiometry

1) 400.4 g SO_2

4) 377.3 g NaOH

2) 17 kg C

5) 690 g AuCl_3

3) 192 g CO

6) 11 g NH_3

Worksheet