MOLE CALCULATION
PRACTICE WORKSHEET

Name : _____

Date : _____

Answer the following questions.

1. How many grams are in 4.5 moles of NaF?

2. How many moles are in 1.2×10^3 grams of ammonia?

3. How many grams are in 0.02 moles of beryllium iodide?

4. How many moles are in 98.3 grams of aluminum hydroxide?

5. How many grams are in 3.3 moles of potassium sulfide?

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1. How many grams are in 4.5 moles of NaF?

Molar mass of NaF = 41.98 g/mol

1 mole of NaF weighs 41.98 grams

4.5 moles of NaF weighs 41.98 x 4.5 grams = 188.91 grams

2. How many moles are in 1.2×10^3 grams of ammonia?

Molar mass of NH_3 = 17 g/mol

1 mole of NH_3 weighs 17 grams

1200 grams of NH_3 represent (1200/17) moles = 70.58 moles

3. How many grams are in 0.02 moles of beryllium iodide?

Molar mass of BeI_2 = 262.82 g/mol

1 mole of BeI_2 weighs 262.82 grams

0.02 moles of BeI_2 weigh 5.25 grams

4. How many moles are in 98.3 grams of aluminum hydroxide?

Molar mass of $Al(OH)_3$ = 78 g/mol

1 mole of $Al(OH)_3$ weighs 78 grams

98.3 grams of $Al(OH)_3$ represent 1.26 moles

5. How many grams are in 3.3 moles of potassium sulfide?

Molar mass of K_2S = 110.262 g/mol

1 mole of K_2S weighs 110.262 grams

3.3 moles of K_2S weigh 3.3 x 110.262 = 363.86 grams