

MASS MOLES

MOLECULES WORKSHEET

Answer the following questions.

1) How many moles are there in 34 grams of $\text{Cu}(\text{OH})_2$?

2) How many moles are present in 15 grams of Li?

3) How many moles are present in 22 grams of Ar?

4) How many moles are present in 2.3 grams of P?

5) How many moles are present in 9.8 grams of Ca?

6) How many moles are present in 3.4 grams of NH_3 ?

Name : _____

Date : _____

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Answers

1) How many moles are there in 34 grams of $\text{Cu}(\text{OH})_2$?

Molar mass of $\text{Cu}(\text{OH})_2 = 97.561 \text{ g/mol}$

34 grams of $\text{Cu}(\text{OH})_2$ represent = $34/97.561 = 0.348$ moles

2) How many moles are present in 15 grams of Li?

Molar mass of Li = 6.941 g/mol

15 grams of Li represent = $15/6.941 = 2.16$ moles

3) How many moles are present in 22 grams of Ar?

Molar mass of Ar = 39.948 g/mol

22 grams of Ar represent = $22/39.948 = 0.55$ moles

4) How many moles are present in 2.3 grams of P?

Molar mass of P = 30.97 g/mol

2.3 grams of P represent = $2.3/30.97 = 0.074$ moles

5) How many moles are present in 9.8 grams of Ca?

Molar mass of Ca = 40.078 g/mol

9.8 grams of Ca represent = $9.8/40.078 = 0.244$ moles

6) How many moles are present in 3.4 grams of NH_3 ?

Molar mass of $\text{NH}_3 = 17 \text{ g/mol}$

3.4 grams of NH_3 represent = $3.4/17 = 0.2$ moles

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