

Moles Worksheet

Determine the number of moles present in the following cases.

1. 25 grams of NaCl

2. 35 grams of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

3. 74 grams of KCl

4. 100 grams of KMnO_4

5. 125 grams of H_2SO_4

6. 145 grams of NaCl

7. 18.5 grams of KCl

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Answers

1. 25 grams of NaCl

Number of moles = $25/58$ moles = 0.43 moles

2. 35 grams of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

Number of moles = $35/250$ moles = 0.14 moles

3. 74 grams of KCl

Number of moles = $74/74$ moles = 1 mole

4. 100 grams of KMnO_4

Number of moles = $100/158$ moles = 0.63 moles

5. 125 grams of H_2SO_4

Number of moles = $125/98$ moles = 1.275 moles

6. 145 grams of NaCl

Number of moles = $145/58$ moles = 2.5 moles

7. 18.5 grams of KCl

Number of moles = $18.5/74$ moles = 0.25 moles