



**Mole Conversion Worksheet:**

**\*\*Problem 1:\*\*** Convert 2.0 moles of hydrogen gas ( $H_2$ ) to grams.

**\*\*Problem 2:\*\*** Convert 30 grams of carbon monoxide (CO) to moles.

**\*\*Problem 3:\*\*** Convert 0.5 moles of oxygen ( $O_2$ ) gas to the number of oxygen molecules.

**\*\*Problem 4:\*\*** Convert 15 grams of sulfuric acid ( $H_2SO_4$ ) to moles.

**\*\*Problem 5:\*\*** Convert 3.0 moles of water ( $H_2O$ ) to grams.

**\*\*Problem 6:\*\*** Convert 60 grams of potassium permanganate ( $KMnO_4$ ) to moles.

**\*\*Problem 7:\*\*** Convert 1.5 moles of methane ( $CH_4$ ) to the number of methane molecules.

**\*\*Problem 8:\*\*** Convert 25 grams of sodium chloride (NaCl) to moles.

**\*\*Problem 9:\*\*** Convert 4.0 moles of carbon dioxide ( $CO_2$ ) to grams.

**\*\*Problem 10:\*\*** Convert 18 grams of ammonia ( $NH_3$ ) to moles.

**\*\*Answers:\*\***

**\*\*Answer 1:\*\*** 4.0 grams

**\*\*Answer 2:\*\*** 0.75 moles

**\*\*Answer 3:\*\***  $3.01 \times 10^{23}$  molecules

**\*\*Answer 4:\*\*** 0.125 moles



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**\*\*Answer 5:\*\*** 54 grams

**\*\*Answer 6:\*\*** 0.375 moles

**\*\*Answer 7:\*\***  $3.61 \times 10^{24}$  molecules

**\*\*Answer 8:\*\*** 0.425 moles

**\*\*Answer 9:\*\*** 88 grams

**\*\*Answer 10:\*\*** 1.08 moles