



# Previous Exam Problem

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A reaction occurs in a rigid, closed container between acetylene gas and oxygen gas to form carbon dioxide and water vapor according to the **unbalanced** equation shown below:



52.08 g acetylene reacts with 320.0 g oxygen gas in a container with volume of 50.00 L which maintained a constant temperature of 30.0°C after the reaction.

What was the total pressure inside the container after the reaction took place?