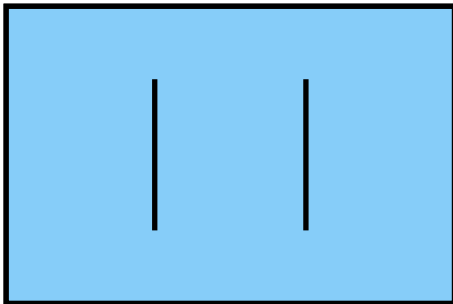# Question 1

A gas is contained within a box as illustrated. The box is at rest. Two identical vertical surfaces are illustrated.
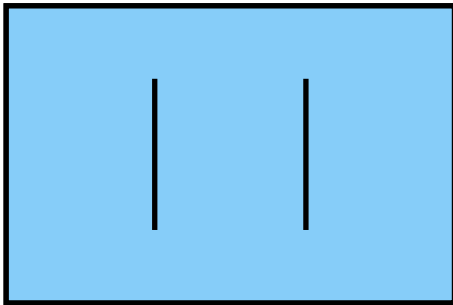
How does the pressure exerted by the gas on the surface on the left, P_{left}, compare to that exerted on the right, P_{right}?

1. $P_{\text{left}} = P_{\text{right}}$

2. $P_{\text{left}} > P_{\text{right}}$

3. $P_{\text{left}} < P_{\text{right}}$

Question 2

A gas is contained within a box as illustrated. Two identical vertical surfaces are illustrated. The box and the entire gas accelerates to the right.

How does the pressure exerted by the gas on the surface on the left, P_{left}, compare to that exerted on the right, P_{right}?

1. $P_{\text{left}} = P_{\text{right}}$

2. $P_{\text{left}} > P_{\text{right}}$

3. $P_{\text{left}} < P_{\text{right}}$