

KMT

- ① a) T c) T
b) F d) F

② There is lots of empty space between the particles of a gas. This allows the gas to be compressed quite a bit by moving the particles closer together.

③ Adding more air increases the number of gas particles in the balloon. More particles means more collisions with the balloon. More collisions means more outward pressure. If outward pressure $>$ atmospheric pressure, balloon expands.

④ Collisions between gas particles and container walls.

⑤ Higher temp = more K.E.

⑥ More gas = higher pressure

⑦ Smaller volume = higher pressure

⑧ lower temp = smaller volume