

Question number	Answer	Notes	Marks
9 (a)	molecules collide with walls; collisions provide force on walls; force per unit area gives a pressure;	allow particles or atoms formula alone is insufficient	3
(b)	any TWO from: MP1. number of molecules in container decreases; MP2. increase in temperature increases speed or KE of molecules; MP3. molecules have a high enough speed or KE to escape;	allow particles or atoms	2
(c)	any TWO from: MP1. idea fewer collisions per unit time gives lower force; MP2. idea that each collision is less hard; MP3. (lower force per unit area gives) lower pressure; MP4. pressure outside container is larger than pressure in can; MP5. pressure difference causes a force;	accept RA throughout accept "lower frequency of collisions" ignore collisions between molecules allow force (from air pressure) is lower inside than outside	2

(Total for Question 9 = 7 marks)