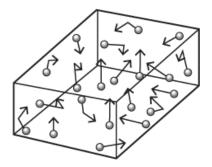
1(a). This question is about how gas molecules cause pressure.

The diagram shows gas molecules exerting a pressure when they collide with the walls of a container.



Complete each sentence to explain how gas pressure changes with temperature.

Use words from the list.

decreases	force	increases	size	speed	temperature
As the		of the gas in	creases the mol	lecules have	greater average
The gas molecules	collide more	often with the wall	s of the contain	er.	
This exerts a greate	er		over the same	e area and th	ne gas pressure
(b). Scientists often	use models	to help develop ex	planations and	solve proble	ems.
Which statements of	describe a sir	nple model of the	Earth's atmospl	here?	
Tick (✓) three boxe	es.				
It covers the Earth	to a height of	f about 700 km.			
It covers the Earth	to a height of	f about 700 m.			
The atmospheric p	ressure decre	eases as you mov	e away from the	e Earth's sur	face.
The density is great	ater as you m	ove away from the	Earth's surface) .	
The density is unif	orm.				
The thickness of th	ne atmospher	e is large compare	ad to the Farth's	diameter	

2.	Why	y does atmospheric pressur	e decrease as the height	above the Earth's surface increases?	
A B C D	-	The distance from the equat The number of air molecules The temperature of the air in The weight of each air molec	s above you decreases. acreases.		
Υ	our a	answer			[1]
3.	The	diagram shows a gas in a s	sealed syringe.		
TI	ne pl	unger is pushed half-way in	to the syringe. The gas te	mperature stays constant.	
		Before	After		
P	unge	er Gas	Plunger Gas		
		Volume	Pressure		
	Α	doubles	halves		

		Volume	Pressure	
A	١	doubles	halves	
В	}	doubles	doubles	
С	;	halves	doubles	
D)	halves	halves	

Which row in the table describes what happens to the volume and pressure of the gas?

Your answer [1]

END OF QUESTION PAPER