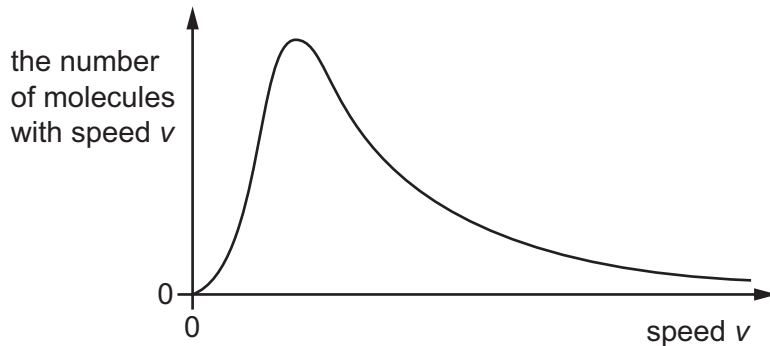


**21** The graph shows the distribution of speeds for the molecules of a gas at a particular temperature.



Which statement is correct?

- A** All the molecules have the same kinetic energy.
- B** The commonest value of speed is also the average speed.
- C** The graph shows that the molecules of a gas are widely spaced apart.
- D** The peak value of the graph would move to the right if the temperature is increased.

**22** The Mariana Trench in the Pacific Ocean has a depth of about 10 km