

- 15 The density of air on the Earth decreases almost linearly with height from 1.22 kg m^{-3} at sea level to 0.74 kg m^{-3} at an altitude of 5000 m.

Atmospheric pressure at the Earth's surface on a particular day is 100 000 Pa. The value of g between the Earth's surface and an altitude of 5000 m can be considered to have a constant value of 9.7 ms^{-2} .

What will be the atmospheric pressure at an altitude of 5000 m?

- A 36 000 Pa
- B 48 000 Pa
- C 52 000 Pa
- D 59 000 Pa

- 16 A parachutist is falling at constant (terminal) velocity.