12 At the Earth's surface, an atmospheric pressure of 1 atmosphere is able to hold up a column of mercury 76 cm in height. The density of mercury is 13 600 kg m^{-3}.

What would be the height of the atmosphere above the mercury responsible for this pressure? Assume that the atmosphere has a constant density of 1.2 kg m^{-3}.

A 860 m **B** 8600 m **C** 86 000 m **D** 860 000 m