

13 A black hole has a mass of 2.0×10^{31} kg.

What would be the gravitational field strength due to this black hole at a distance of 150 million km?

- A 5.9×10^{-2} N kg $^{-1}$
- B 5.9×10^4 N kg $^{-1}$
- C 8.8×10^9 N kg $^{-1}$
- D 8.8×10^{12} N kg $^{-1}$

