

- 17** A stone of mass 0.30 kg is thrown vertically downwards with a speed of 20 m s^{-1} from a height of 12 m above the ground. It falls vertically until it hits the ground. Air resistance is negligible.

What is the kinetic energy of the stone just before it hits the ground?

A 25 J

B 35 J

C 60 J

D 95 J