

- 11** A rocket of mass 30 000 kg sits on a launch pad on the Earth's surface. The rocket motors provide an upward force of 330 kN on the rocket.

What is the initial acceleration of the rocket?

**A**  $0.12 \text{ ms}^{-2}$

**B**  $1.1 \text{ ms}^{-2}$

**C**  $1.2 \text{ ms}^{-2}$

**D**  $11 \text{ ms}^{-2}$