

**18** An area of land is an average of 2.0 m below sea level. To prevent flooding, pumps are used to lift rainwater up to sea level.

What is the minimum pump output power required to deal with  $1.3 \times 10^9$  kg of rain per day?

**A** 15 kW

**B** 30 kW

**C** 150 kW

**D** 300 kW

**19** A twig from a tree drops from a 200 m high cliff on to a beach below. During its fall, 10% of the