

**19** A sailboat is pushed by the wind at a constant velocity  $v$  across a lake.

The force of the wind and the velocity of the sailboat are in the same direction.

Which additional information is required to determine the work done per unit time by the wind acting on the sailboat?

- A** the force exerted by the wind
- B** the distance travelled by the sailboat per unit time
- C** the total energy input to the sailboat by the wind
- D** the weight of the sailboat