

- 6** A camera drone of mass 1.20 kg hovers at a fixed point above the ground. The drone has four propellers.



In a time of 1.00 s, each propeller pushes a mass of 0.400 kg of air vertically downwards.

Assume that the air above the propellers is stationary.

What is the speed of the air leaving each propeller?

- A** 0.750 m s^{-1} **B** 3.00 m s^{-1} **C** 7.36 m s^{-1} **D** 29.4 m s^{-1}