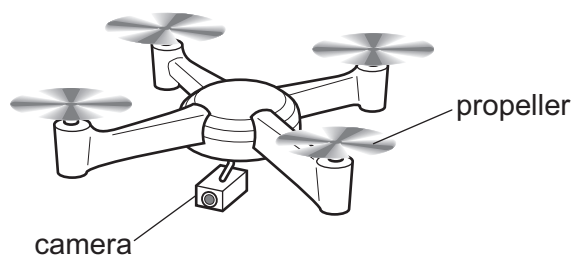


- 7 A camera drone of mass 1.20 kg hovers at a fixed point above the ground. The drone has four propellers.



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**  $0.750 \text{ ms}^{-1}$     **B**  $3.00 \text{ ms}^{-1}$     **C**  $7.36 \text{ ms}^{-1}$     **D**  $29.4 \text{ ms}^{-1}$

- 8 A box rests on the Earth, as shown.

Newton's third law describes how forces of the same type act in pairs. One of the forces of a pair is the weight  $W$  of the box.

Which arrow represents the other force of this pair?

