

- 6** Water is pumped through a hosepipe at a rate of 90 kg per minute. It emerges from the hosepipe horizontally with a speed of  $20 \text{ m s}^{-1}$ .

Which force is required from a person holding the hosepipe to prevent it moving backwards?

- A** 30 N                      **B** 270 N                      **C** 1800 N                      **D** 10800 N

- 7** A rod, made up of 2 uniform portions, A and B, is held in place by a cable under tension,  $T$