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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 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

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