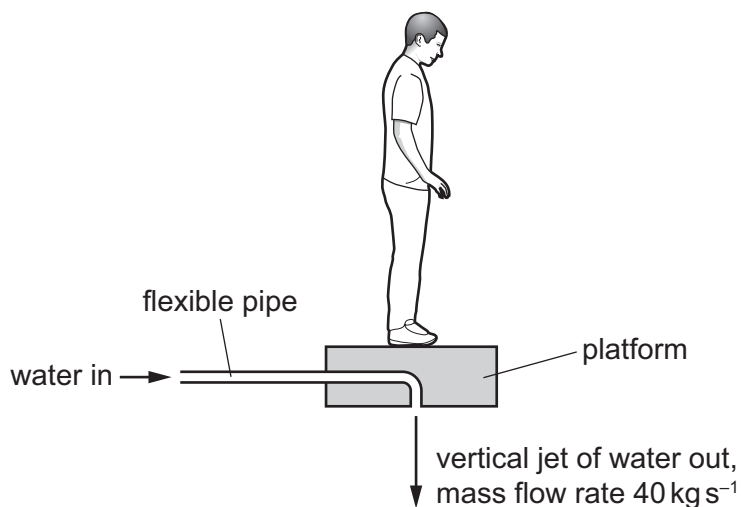


- 11 The diagram shows a man standing on a platform that is attached to a flexible pipe. Water is pumped through the pipe so that the man and platform remain at a constant height.



The resultant vertical force on the platform is zero. The combined mass of the man and platform is 96 kg . The mass of water that is discharged vertically downwards from the platform each second is 40 kg .

What is the speed of the water leaving the platform?

- A 2.4 ms^{-1} B 6.9 ms^{-1} C 24 ms^{-1} D 47 ms^{-1}

- 12 Forces are applied to a rigid body. The forces all act in the same plane.

In which diagram is the body in equilibrium?

