QUESTION
Water flows with a velocity of 1 m/s in a pipe with an inner diameter of 5 cm. The flow is split into 2 pipes, each having an inner diameter of 3 cm. The velocity in the 3 cm pipes (in m/s) is
(A) 1.38
(B) 1.67
(C) 2.76
(D) 3.34

HINTS
• mass flow rate = density × velocity × cross sectional area
• mass is conserved when the flow goes from two pipes to one

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