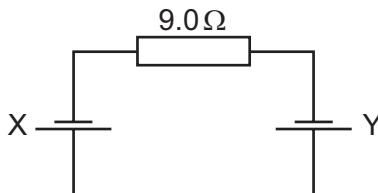


31 Two cells X and Y are connected in series with a resistor of resistance 9.0Ω , as shown.



Cell X has an electromotive force (e.m.f.) of 1.0V and an internal resistance of 1.0Ω . Cell Y has an e.m.f. of 2.0V and an internal resistance of 2.0Ω .

What is the current in the circuit?

- A** 0.25A **B** 0.17A **C** 0.10A **D** 0.083A

Space for working