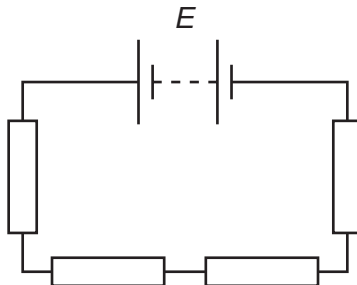


- 34** Some resistors and a battery of electromotive force (e.m.f.) E and negligible internal resistance are connected in series, as shown.



Which statement is correct?

- A** The e.m.f. across each resistor equals the potential difference across the battery.
- B** The potential difference across each resistor equals the e.m.f. E of the battery.
- C** The sum of the e.m.f.s across the resistors equals the potential difference across the battery.
- D** The sum of the potential differences across the resistors equals the e.m.f. E of the battery.