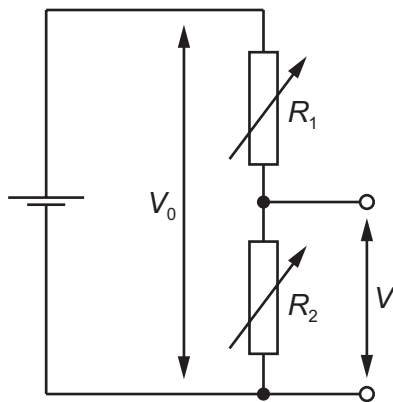


- 36** A potential divider circuit consists of a cell of negligible internal resistance in series with two variable resistors of resistances R_1 and R_2 . The potential difference (p.d.) across the cell is V_0 . The p.d. at the output is V .



Which statement is correct?

- A** When R_1 increases, it takes a greater proportion of V_0 , so V decreases.
- B** When R_1 increases, the current through R_1 and R_2 decreases, so V increases.
- C** When R_2 decreases, it takes a smaller proportion of V_0 , so V increases.
- D** When R_2 increases, the current through R_1 and R_2 decreases, so V decreases.