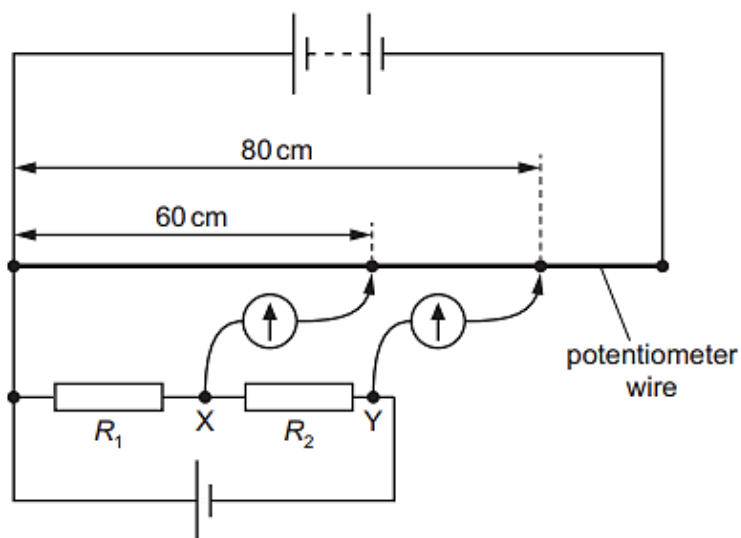**22** Potential differences across two resistors of resistances R_1 and R_2 are compared using a one metre long potentiometer wire of uniform resistance in the electrical circuit shown.

One galvanometer is connected from point X to the 60 cm mark. Another galvanometer is connected from point Y to the 80 cm mark. Both galvanometers read zero.

What is the ratio of $\dfrac{R_2}{R_1}$?

A 0.33   **B** 0.75   **C** 3.0   **D** 1.3