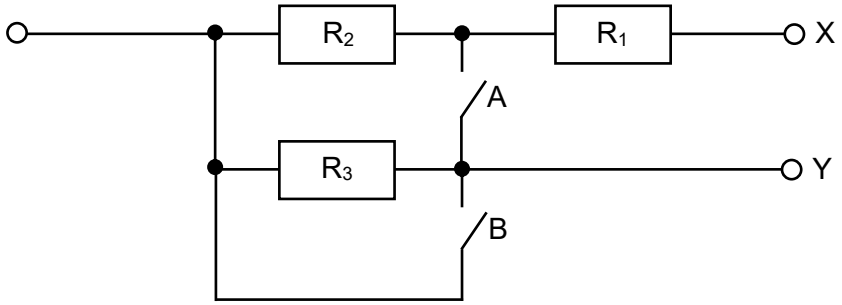
22 A circuit consists of three resistors R_1, R_2 and R_3, and two switches A and B, as shown in the figure.



The resistance between the terminals X and Y is measured for different settings of the switches A and B.

The results are shown in the table.

switch A	switch B	resistance between X and Y / kΩ
open	open	24
open	closed	20
closed	open	12
closed	closed	12

What is the ratio of the $\frac{\text{resistance of } R_1}{\text{resistance of } R_3}$?

A 0.33 **B** 0.50 **C** 1.0 **D** 3.0