Using the provided information in the following paper chromatogram :
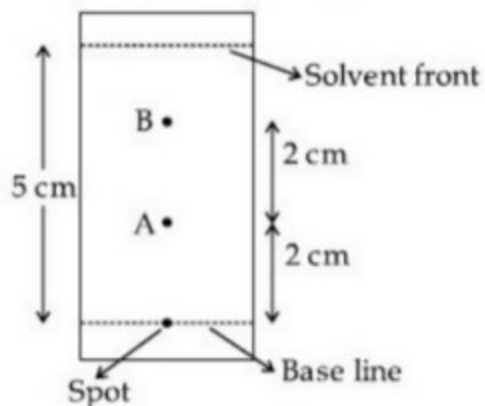

Fig : Paper chromatography for compounds A and B.

the calculated R_f value of A _____ × 10^{-1}.

Answer

Correct Answer is 4

Explanation

$$R_f = \frac{Dis\,tan\,ce\ travelled\ by\ compound}{Dis\,tan\,ce\ travelled\ by\ solvent}$$

On chromatogram distance travelled by compound is = 2 cm

Distance travelled by solvent = 5 cm

So, $R_f = \frac{2}{5} = 4 \times 10^{-1} = 0.4$