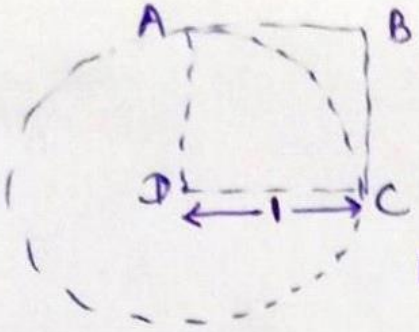
Ans. 2



Let r be the radius of circle ($r = 1$)

By the Random Experiment of throwing pebbles in the region ABCD we can determine value of π as

$$\text{Probability of pebble getting fallen in quater circle} = \frac{\text{Area of Quater Circle}}{\text{Area of Square}}$$

$\because$ Area of circle $\propto r^2$

Let Area of Circle $= \pi r^2$. π : constant we need to find

Area of square $= r^2$

$$\therefore \text{Probability} = \frac{\pi r^2/4}{r^2} = \frac{\pi}{4}$$

(Area of Quater circle will be = 1/4 × Area of circle)

$$\therefore \pi = 4 \times \text{probabilty}.$$