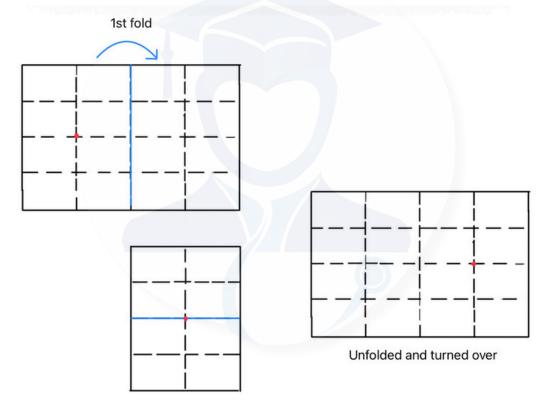
Question 3, 2020

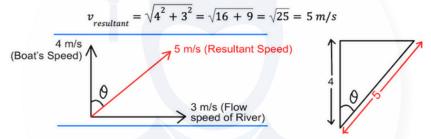


focomotive

Question 60, 2020

It's given that the boat's speed in still water (relative to water) is 4 m/s and the flow speed of the river is 3 m/s (parallel to the banks).

So, the resultant velocity of the boat is the vector sum of these two velocities:



Now, the angle is measured from the line perpendicular to the bank (90° line). The options are given in terms of cos⁻¹.

$$\cos \cos \theta = \frac{4}{5}$$

$$\theta = \left(\frac{4}{5}\right)$$

the correct answer is (A).

