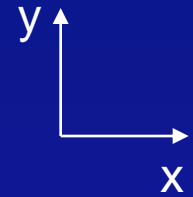


Preflight 7.1

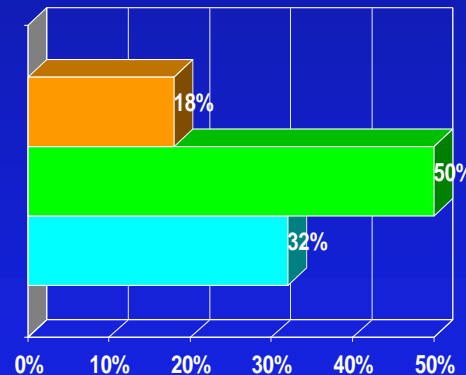


Three swimmers can swim equally fast relative to the water. They have a race to see who can swim across a river in the least time. Relative to the water, Beth (B) swims perpendicular to the flow, Ann (A) swims upstream, and Carly (C) swims downstream. Which swimmer wins the race?

A) Ann

B) Beth ← correct

C) Carly



$$t = d / v_y$$

$$\text{Ann } v_y = v \cos(\theta)$$

$$\text{Beth } v_y = v$$

$$\text{Carly } v_y = v \cos(\theta)$$

