

(1) Speed of the boat in still water

$$= \frac{\text{downstream speed} + \text{upstream speed}}{2}$$

$$B_s = \frac{P_s + U_s}{2}$$

Ex A man can go 32 km/hr upstream & 36 km/hr downstream find the speed of man in still water?

$$B_s = \frac{P_s + U_s}{2} = \frac{36 + 32}{2} = 34 \text{ km/hr}$$

(2) Speed of current

$$= \frac{\text{downstream speed} - \text{upstream speed}}{2}$$

$$C_s = \frac{D_s - U_s}{2}$$

$$D_s > U_s$$