## Downstream/Upstream:

- 1.In water, the direction along the stream is called downstream. And, the direction against the stream is called upstream.
- 2.If the speed of a boat in still water is u km/hr and the speed of the stream is v km/hr, then:

Speed downstream =  $(u + v) \, km/hr$ .

Speed upstream = (u - v) km/hr.

3.If the speed downstream is a km/hr and the speed upstream is b km/hr, then:

Speed in still water = 1/2(a + b) km/hr.

Rate of stream =1/2(a - b) km/hr.