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Exercise: Boats and Streams - Formulas

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- 1. Downstream/Upstream:

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 = $\frac{1}{2}(a + b)$ km/hr.

Rate of stream = $\frac{1}{2}(a - b)$ km/hr.