

Boat & Streams

1. The speed of a boat downstream is 15 km/hr and the speed of the stream is 1.5 km/hr. The speed of the boat upstream is
2. A boat can travel with a speed of 13km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68km downstream
3. A boat moves downstream at the rate of 12 km/hr and upstream at 4 km/hr. find the speed of the boat in still water and also the speed of current.
4. If a man rows at the rates of 5 kmph in still water and his rate against the current is 3.5 kmph, then the man's rate along the current is
5. In one hour each time a boat goes 11 km along the stream and 5 km against the stream. The speed of the boat in still water is
6. A man rows upstream 13 km and downstream 28 km taking 5 hours each time. What is the velocity of the current?
7. A man can row down streams 11km/hr and upstream at the rate of 5km/hr. Find the man's rowing rate in still water and speed of current.
8. A man can row three-quarters of a kilometer against the stream in 11.25 minutes. The speed of the man in still water is
9. A boat running downstream covers a distance of 16 km in 2 hr while for covering the same distance upstream it takes 4hr. What is the speed of the boat in still water?
10. If a boat goes 7 km upstream in 42 minutes and the speed of the stream is 3 kmph, then the speed of the boat in still water is
11. A boat moves downstream at the rate of one km in 10 minutes and upstream at the rate of 4 km an hour. What is the velocity of the current?
12. A man can row three quarters of a km against the stream in $11\frac{1}{4}$ minutes and return in $7\frac{1}{2}$ minutes. Find the speed of the man in still water. What is the speed of the stream?
13. The speed of a boat in still water is 12 km/hr and rate of flow of streams is 4km/hr. If it travelled by the boat during this journey.
14. A man can row 60 km downstream in 6 hours. If the speed of the current is 3km/hr, then find in what time will he be able to cover 16 km upstream?
15. The speed of a boat in still water is 15 km/hr , and the rate of current is 3km/hr. The distance travelled downstream in 12 minutes is
16. A boat takes 9 h to travel a distance upstream and takes 3 h to travel the same distance downstream. If the speed of the boat in still water is 4 km./hr, What is the velocity of the stream?
17. A boatman can row 2km against the stream in 20 minutes and return in 18 minutes. Find the rate of current.
18. A boatman goes 2km against the current of t he stream in 1hour and goes 1 km along the current in 10 minutes. How long will it takes to go 5 km in stationary water?

19. A man takes twice as long to row against the stream as to row the same distance in favor of the stream. The ratio of the speed of the boat and the stream is
20. A boat running upstream takes 8 hours 48 minutes to cover a certain distance. While it take 4 hour to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?
21. Speed of a boat in standing water is 9km/h and the speed of the stream is 1.5 km/hr. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is
22. A man can row at a speed of 10 km/h still water to a certain upstream point and back to the starting point in a river which flows at 4km/h. Find his average speed for total journey.
23. A man can row at 5kmph in still water. If the speed of current is 1 kmph and it takes him 1 hour to row to a place and come back , how far is the place?
24. A boat covers a certain distance downstream in 2 hours but takes 4 hours to return upstream to the starting point. If the speed of the stream be 3km/h, find the speed of the boat in still water.
25. A boat travels 2km upstream in a stream following at 3km/h and then speed of the boat in still water is:
26. In a river following at 2km/h, a boat travels 32km upstream and then returns downstream to the starting point. If its speed in still water be 6 km/h find the total journey time.
27. A boat travels upstream from B to A and downstream from A to B in 3 hrs. If the speed of the boat in still water is 9 km/h and the speed of the current is 3 km/h, the distance between A and B is
28. A man swimming in a stream which flows $1\frac{1}{2}$ km/h finds that in a given time he can swim twice as far with the stream as he can against it. At what rate does he swim?
29. A boat covers 24 km upstream and 36 km downstream in 6h, while it covers 36 km upstream and 24 km downstream in $6\frac{1}{2}$ hrs. The velocity of the current is
30. A man can row 30 km upstream and 44 km downstream in 10h. Also, he can row 40km upstream and 554km downstream in 13 hours. Find the rate of the current and the speed of the man in still water.

Answer

1		7	8km/hr, 3km/hr	13	26km	19	3:1	25	9km/h
2	4hr	8		14	4.5 hr	20		26	12h
3		9	6km/hr	15	4 km/hr	21	24hr	27	12km
4	3kmph	10	13kmph	16	4km/hr	22	$8\frac{2}{5}$	28	$4\frac{1}{2}$
5	8kmph	11	1 km/ph	17	$\frac{1}{3}$ km/h	23	2.4km	29	2 km/h
6	1.5Km/hr	12	5km/hr, 1 km/hr	18		24	9km/h	30	3 km/h, 8km/h