

BOAT & STREAM PROBLEMS

1. A boat can row upstream at 10 km/h and downstream at 18 km/h. Find the speed of the boat in still water and the speed of the stream.
2. A man can swim upstream at 6 km/h and downstream at 10 km/h. Find the speed of stream and speed of man in still water.
3. A man rows 15 km upstream and 25 km downstream in 5 hours each time. What is the speed of the current?
4. In 2 hours a boat covers a certain distance in a river downstream at 17 km/h and returns back at 9 km/h. Find the speed of the stream.
5. A boat goes 30 km downstream and comes back to the starting point in 4 hours 30 minutes. If the speed of boat in still water is 15 km/h, find the speed of the stream.
6. A man can swim a certain distance downstream in 3 hours and returns back the same distance upstream in 6 hours. If the speed of stream is 2 km/h, then find the speed of the man in still water.
7. A woman can swim 8 km/h in still water. If the speed of the stream is 4 km/h, then find the time taken by the woman to cover the distance of 16 km upstream.
8. A boat goes 12 km downstream and comes back to the starting point in 3 hours. If the speed of the stream is 3 km/h, find the speed of the boat in still water.
9. A man can row at 8 km/h in still water. If the speed of current is 2 km/h and he takes 4 hours to row to a place and return back, how far is the place?
10. The speed of a boat in still water is 12 km/h and the speed of the stream is 2 km/h. A person rows to a place at a distance of 70 km and returns back to the starting point. Find the total time taken by him.
11. A boat covers 4 km against the stream in 1 hour and covers the same distance in the direction of stream in 40 minutes. How long will it take to go 10 km in still water?
12. A boat rows a distance of 12 km downstream at 13 km/h and covers the same distance upstream at 7 km/h. Find the average speed of the boat.
13. Find the average speed of a boat in a round trip between two places 20 km apart. If the speed of the boat in still water is 10 km/h and the speed of the stream is 5 km/h.
14. A man takes twice as long to row a distance against the stream as to row the same distance in the direction of stream. Find the ratio of speed of man in still water to the speed of stream.
15. A boat takes thrice as long as to go upstream to a point as to return downstream to the starting point. If the speed of the stream is 5 km/h, find the speed of boat in still water.

16. A motor boat can row at the speed of 8 km/h in still water. If the river is flowing at 4 km/h and it takes 16 hours for a round trip, find the distance between two places.

17. A swimmer whose speed in swimming pool is 4 km/h, swims between two points in a river and returns back to the starting point. He took 10 minutes more to cover the distance upstream than downstream. If the speed of the stream is 2 km/h, find the distance between two points.

18. The ratio of speed of a motor boat in still water and that of the current of water is 25 : 4. The motor boat goes a certain distance downstream in 5 hours 15 minutes. How much time will it take to come back?

19. A man rows to a place at a distance of 48 km and returns back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. Find the speed of stream.

20. A boat moving upstream takes 6 hours 36 minutes to cover a certain distance while it takes 3 hours to cover the same distance downstream. Find the ratio of the speed of boat in still water to the speed of stream.

21. A motor boat takes 3 hours to cover a certain distance upstream and returns back the same distance downstream in 1 hour 15 minutes. If the speed of the stream is 7 km/h, find the speed of boat in still water.

22. A boat goes 20 km upstream and 30 km downstream in 5 hours each time. Find the speed of the boat in still water and the speed of the current.

23. A boat goes 20 km upstream and 22 km downstream in 6 hours. Also, it goes 25 km upstream and 33 km downstream in 8 hours. Find the speed of the boat in still water and that of the stream.

24. A boat covers 32 km upstream and 36 km downstream in 7 hours. Also, it covers 40 km upstream and 48 km downstream in 9 hours. Find the speed of the boat in still water and that of the stream.

25. The ratio of speed of a motor boat and that of the current of water is 36 : 5. The boat goes a certain distance along with the current in 5 hours 10 minutes. How much time will it take to come back?

26. A boat takes 90 minutes less to travel 36 km downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 km/h, find the speed of the stream.