17. Boats & Streams

1. Piyush can swim downstream at 12 kmph and upstream at 6 kmph. Find the speed of Piyush in still water (in kmph).
(1) 12 (2) 3 (3) 9 (4) 7.5

2. A boat travels 12 km downstream in 2 hours and 10 km upstream in 5 hours. Find speed of boat in Stillwater (kmph).
(1) 2 (2) 3 (3) 4 (4) 6

3. A man rows downstream and covers 12 km in 3 hours. He covers the same distance upstream in 6 hours. What is the difference in the distance, rowing upstream and rowing in still water for a period of 3 hours?
(1) 3 km (2) 5 km (3) 6 km (4) 8 km

4. A boat runs at 22 km per hour along the stream and 10 km per hour against the stream. Find the ratio of speed of the boat in still water to that of the speed of the stream.
(1) 2:3 (2) 8:3 (3) 5:3 (4) 7:3

5. Amit and Sumit started moving up an escalator which is moving upwards. Amit takes 8 steps a minute and reaches the top in 8 minutes. Sumit takes 13 steps a minute and reaches the top in 6 minutes. How many steps are there in the escalator?
(1)150 (2)100 (3) 75 (4) 120

6. Sreeram takes four hours to swim to a point downstream and return to the original place. If his speed in still water is 4 kmph and speed of the stream is 1 kmph, what is the total distance covered by the Sreeram?
(1) 12 km (2) 10 km (3) 15 km (4) 18 km (5) 7.5 km

7. A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?
(1) 2 : 1 (2) 3 : 2 (3) 8 : 3 (4) Cannot be determined

8. A boat takes 11 hours for travelling downstream from point A to point B and coming back to point C midway between A and B. If the velocity of the stream is 3km/hr and the speed of the boat in still water is 12 km/hr, what is the distance between A and B?
(1) 115 kms (2) 120 kms (3) 140 kms (4) 90 kms

9. Sony can row 12 km/h in still water. It takes him twice as long to row up as to row down the river. The rate of stream is
(1) 8 km/h (2) 4 km/h (3) 6 km/h (4) 16 km/h

10. A boat goes 48km in 20 h along with the stream. It takes 4h more to cover the same distance against the stream. Find the speed of the boat.
(1) 4.4 km/hr (2) 2 km/hr (3) 3.4 km/hr (4) 2.2 km/hr

11. Siraj can swim in still water at a speed of 10 kmph. If speed of the current would have been 5 kmph, then he could swim 60 km:
(1) Upstream in 4 hours (2) Downstream in 12 hours
(3) Upstream in 6 hours (4) Downstream in 4 hours

12. Alisha rows downstream 18km and 12km upstream. If she takes 3 hours to cover each distance, the velocity (in kmph) of the current is
(1) 0.25 (2) 0.5 (3) 0.75 (4) 1

13. If a boat goes 100km downstream in 600 minutes and the speed of the stream is 5 kmph, the speed of the boat (in kmph) in still water is
(1) 5 (2) 10 (3) 15 (4) 20

14. A boat moves with a speed of 5 kmph in still water. When the river flows at 1 kmph, the boat takes 80 minutes to go from a point A to B and come back. What is the distance between the two points?
(1) 3km (2) 2.4km (3) 3.2km (4) 2.8km

15. Sitara takes 18 hours for travelling upstream from point P to Q and coming back to a point R midway between P and Q. If the velocity of the river is 6 kmph and the speed of Sitara in still water is 10 kmph. What is the distance (in km) between P and Q?
(1) 30 (2) 32 (3) 64 (4) none of these

Boats & Streams						
1	3	**6**	3	**11**	2	
2	3	**7**	3	**12**	4	
3	1	**8**	4	**13**	1	
4	2	**9**	2	**14**	3	
5	4	**10**	4	**15**	4	