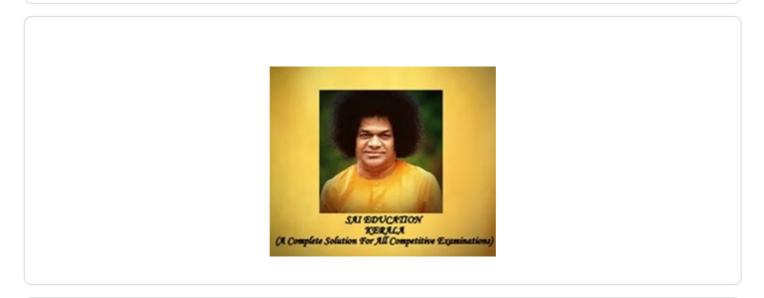
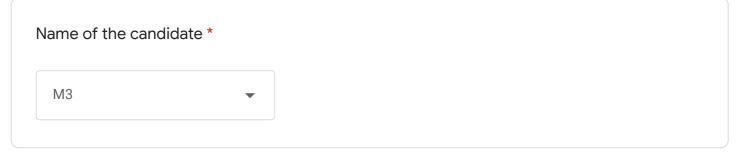
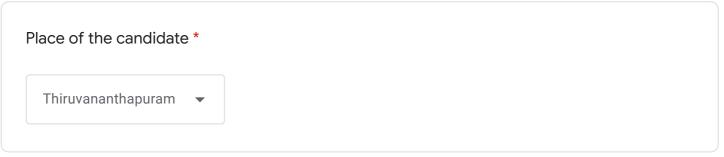
108 DAYS ONLINE COACHING DAY(23) -05/03/2020 THURSDAY

Boats and Stream







WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE) 0000

Please watch the following videos and answer the questions that follow

https://youtu.be/8EYcdFyAqfU

1. Speed of a boat along the flow of river is 36 km/hr and still water speed of the boat is 32 km/hr. What is the speed of the boat against the flow of water *	1 point
② 28km/hr	
26km/hr	
27km/hr	
25km/hr	
2. Speed of the boat against the flow of river is 28.9km/hr and rate of flow is 3.1.km/hr.What is the downstream speed. *	1 point
34.1km/hr	
34km/hr	
35.1km/hr	
35km/hr	
3. Speed of the boat along the flow of river is 35.1km/hr.Speed of the boat against the flow of river is 28.7km/hr.What is the still water speed. *	1 point
31km/hr	
31.9km/hr	
30km/hr	
30.1km/hr	

4. A man can row upstream at 8 km/hr and downstream at 13 km/hr. The speed of the stream is *	1 point
2km/hr	
2.5km/hr	
3km/hr	
3.5km/hr	
5. The rates in upstream and downstream of a swimmer are 10km/hr and 13 km/hr. Then the speed of the current is *	1 point
<u>1.km/hr</u>	
● 1.5km/hr	
0.5km/hr	
2km/hr	
6. Ariver is running at a rate of 5.9km/hr and still water speed of a boat is 38.1km/hr. Find the upstream speed of the boat. *	1 point
32km/hr	
32.1km/hr	
32.2km/hr	
32.3km/hr	

7. A man takes 6 hours to complete a distance of 36km in downstream. He takes 5 hours to complete a distance of 25 km in upstream . How long will he take to complete a distance of 22km in still water. *	1 point
O 2 hrs	
3 hrs	
4 hrs	
○ 5 hrs	
8. A man takes 7 hrs to complete a distance 77kms in downstream. The sametime taken to complete a distance 63 kms in upstream . HOw long will he take to complete a distance 50 km in still water. *	1 point
O 3hr	
O 4hr	
5 hr	
O 6 hr	
9.Find the speed of the boat if it takes 3 hrs to travel a distance of 90 kms upstream and speed of the stream is 4km/hr *	1 point
31km/hr	
32km/hr	
33km/hr	
34km/hr	

10.Find the distance covered by the boat upstream if it travels for 2 hrs.Speed of the stream is 7 km/hr and that of the boat is 57 km/hr. *	1 point
○ 80km	
90km	
100km	
110km	
11.What is the time taken by the boat to travel 120km upstream and back to the starting point if the speed of the stream is 25km/hr and the speed of the stream is 5km/hr. *	1 point
6 hr,4 hr	
10 hr, 2 hr	
3 hrs, 4 hrs	
7 hrs,8 hrs	
12. A man rows upstream 16 km and downstream 28 km taking 5 hrs each time, then the velocity of the current is *	1 point
1km/hr	
1.2km/hr	
1.6km/hr	

13. Up stream speed of a boat is 20km/hr and down stream speed of the same is 30km/hr.What is the difference between the normal speed of the boat and average speed of the journey. *
24km/hr
25km/hr
1 km/hr
2 km/hr
14.Upstream speed of a boat is 12km/hr.Downstream speed is 18km/hr.What is the difference between normal speed of the boat and average speed of the journey. *
1km/hr
O.4km/hr
0.6km/hr
0.8km/hr
15.A man takes twice as long to row up as to row down the river . If the river is running 1 point at rate of 3 km/hr, find the still water speed of the boat. *
O 6km/hr
7km/hr
8 km/hr
9km/hr

16.A man takes thrice times as long to row up as to row down the river. If the river is running at a rate of 4 km/hr, find the still water speed of the boat. *	1 point
O 6km/hr	
7km/hr	
8km/hr	
9km/kr	
17. A man takes 5 times as long to row up as to row down the river. If the still water speed of the boat is 25km/hr, what is the rate of flow. *	1 point
● 1666km/hr	
O 16km/hr	
15km/hr	
15.6km/hr	
18.Still water speed of a boat is 10 km/hr and rate of flow is 2 km/hr. A man completed a distance 48 kms and came back to the starting point . Find the total time taken by him. *	1 point
O 6hrs	
7 hrs	
O 9 hrs	
10 hrs	

19.A man takes 9 hrs to complete a distance upstream and same distance covered in downstream in 6 hrs.If the rate of flow is 3 km/hr,find the still water speed of the boat.	1 point
13km/hr	
14km/hr	
15km/hr	
O 16km/hr	
20. Speed of river is 6 km/hr. Speed of a motorboat in still water is 30km/hr. How much distance can it cover downstream in 24minutes? *	1 point
a. 9.8 km	
O b. 864 m	
O c. 12.8 km	
d. 14.4 km	
21. A boat's speed in still water is 10 km/h while river is flowing with speed of 2 km/h and time to cover a certain distance upstream is 4 h more than time taken to cover the same distance downstream. Find the distance. *	1 point
95 km	
96km	
97km	
98km	

22. A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream. *	1 point
A. 2 hours	
B. 3 hours	
C. 4 hours	
O. 5 hours	
23. A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is: *	1 point
A. 8.5 km/hr	
B. 9 km/hr	
C. 10 km/hr	
D. 12.5 km/hr	
24. 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 point
O A. 2:1	
O B. 3:2	
○ C.8:3	
D. Cannot be determined	
E. None of these	

25. The speed of a boat in still water in 15 km/hr and the rate of current is 3 km/hr. The 1 point distance travelled downstream in 12 minutes is: *
A. 1.2 km
B. 1.8 km
O. 2.4 km
D. 3.6 km
Thankyou!!!

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