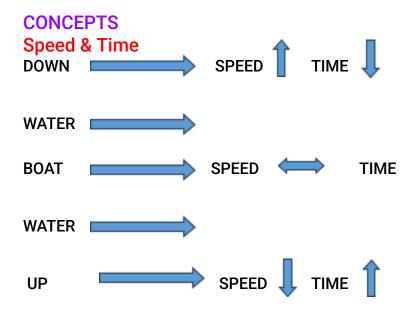
Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

Downstream & Upstream:

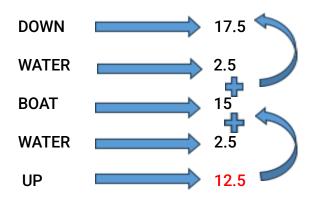
- → In water, the direction along the stream is called downstream. And, the direction against the stream is called upstream.
- → If the speed of a boat in still water is *u* km/hr and the speed of the stream is *v* km/hr, then:
 - igoplus Downstream Speed = (u + v) km/hr.
 - igoplus Upstream Speed = (u v) km/hr.
- → If the downstream speed is a km/hr and the upstream speed is b km/hr, then:
 - ◆ Speed in still water,u = (a + b) km/hr.
 - ◆ Rate of stream,v =(a b) km/hr.



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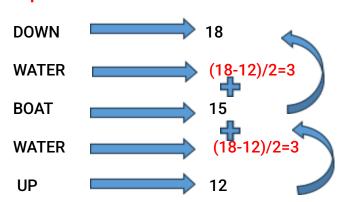
- 1. A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is:
 - a. 8.5 km/hr
 - b. 9 km/hr
 - c. 10 km/hr
 - d. 12.5 km/hr

Ans: c. 10km/hr Explanation:



- 2. A man's speed with the downstream is 18 km/hr and the speed of the upstream is 12 km/hr. The speed of the current is:
 - a. 1 km/hr
 - b. 5 km/hr
 - c. 3 km/hr
 - d. 2 km/hr

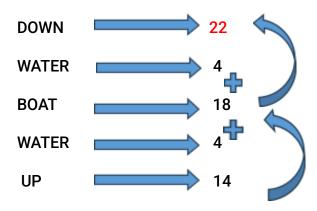
Ans: c. 3 km/hr Explanation:



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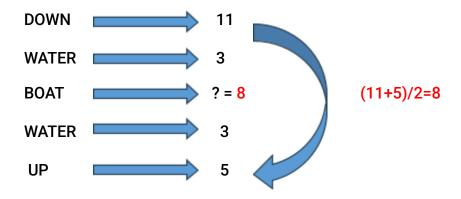
- 3. A man's speed with the current is 18 km/hr and the speed of the current is 4 km/hr. The man's speed along the current is:
 - a. 20 km/hr
 - b. 18 km/hr
 - c. 14 km/hr
 - d. 22 km/hr

Ans: d. 22km/hr Explanation:



- 4. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is:
 - a. 3 km/hr
 - b. 5 km/hr
 - c. 8 km/hr
 - d. 9 km/hr

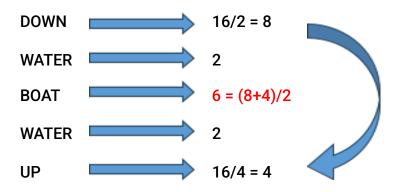
Ans: c. 8 km/hr Explanation:



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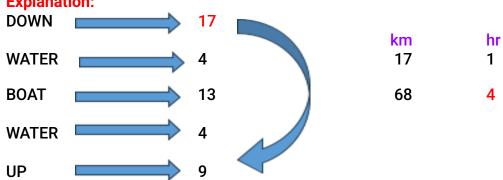
- 5. A boat running downstream covers a distance of 16 km in 2 hours, while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?
 - a. 4 km/hr
 - b. 6 km/hr
 - c. 8 km/hr
 - d. 9 km/hr

Ans: b. 6 km/hr Explanation:



- 6. 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.
 - a. 2 hours
 - b. 3 hours
 - c. 4 hours
 - d. 5 hours

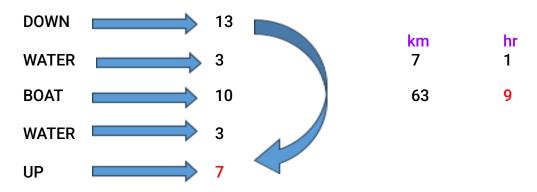
Ans: c. 4 hours Explanation:



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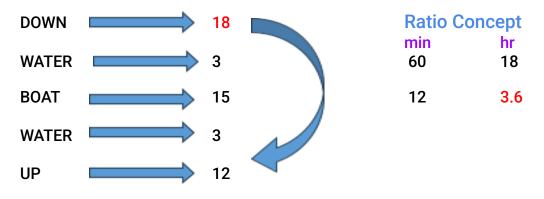
- 7. A boat can travel with a speed of 10 km/hr in still water. If the speed of the stream is 3 km/hr, find the time taken by the boat to go 63 km upstream.
 - a. 9 hours
 - b. 8 hours
 - c. 6 hours
 - d. 7 hours

Ans: a. 9 hours Explanation:



- 8. The speed of a boat in still water is 15 km/hr and the rate of current is 3 km/hr. The distance traveled downstream in 12 minutes is:
 - a. 1.2 km
 - b. 1.8 km
 - c. 2.4 km
 - d. 3.6 km

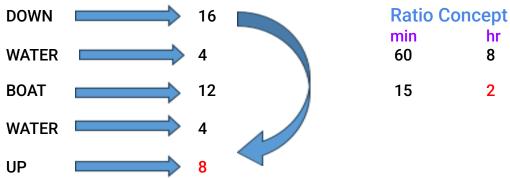
Ans: d. 3.6 km Explanation:



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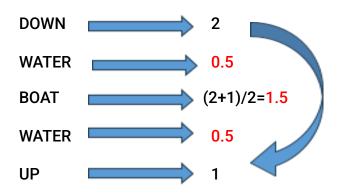
- 9. The speed of a boat in still water is 12 km/hr and the rate of current is 4 km/hr. The distance traveled upstream in 15 minutes is:
 - a. 2 km
 - b. 3 km
 - c. 4 km
 - d. 5 km

Ans: a. 2 km Explanation:



- 10. A man takes twice as long to row a distance against the stream as to row the same distance in favor of the stream. The ratio of the speed of the boat (in still water) and the stream is:
 - a. 2:1
 - b. 3:1
 - c. 3:2
 - d. 4:3

Ans: b. 3: 1 Explanation:



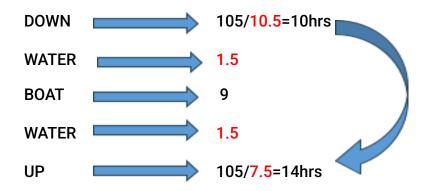
BOAT: WATER

1.5 : .5

Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
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- 11. Speed of a boat in still water is 9 kmph and the speed of the stream is 1.5 kmph. 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:
 - a. 16 hours
 - b. 18 hours
 - c. 20 hours
 - d. 24 hours

Ans: d. 24 hours Explanation:



Total Time = 10+14 => 24hrs

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- 12. A boatman goes 2 km against the stream's current in 1 hour and 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?
 - a. 40 minutes
 - b. 1 hour
 - c. 1 hour 15 minutes
 - d. 1 hour 30 minutes

Ans: c. 1 hour 15 minutes Explanation:

1 km along the current in 10 minutes.

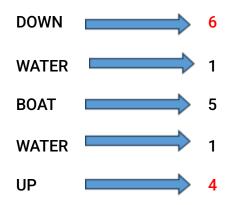


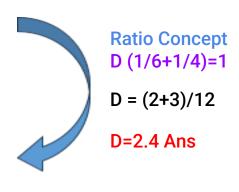


Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

- 13. A man can row at 5 kmph in still water. If the velocity of the current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?
 - a. 2.4 km
 - b. 2.5 km
 - c. 3 km
 - d. 3.6 km

Ans: a. 2.4 km Explanation:





Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

14. 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 the speed of the water current respectively?

B 32

8

12

: 3 ANS

- a. 2:1
- b. 3: 2
- c. 8:3
- d. 5:4

Ans: c. 8: 3 Explanation:



- WATER

 12

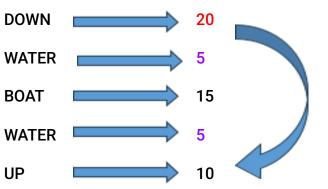
 UP

 20

 15. A motorboat, whose speed is 15 km/hr in still water, goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr)
 - a. 4
 - b. 5
 - c. 6
 - d. 10

Ans: b. 5 Explanation:

is:



 $30/20 + 30/10 = 4 \frac{1}{2} \text{ hr}$

Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

- 16. A man covers 32 km downstream and 36 km upstream in 7 hours. He covers 40 km downstream and 48 km upstream in 9 hours. What is the speed of the man in still water?
 - a. 6 km/h
 - b. 10 km/h
 - c. 8 km/h
 - d. 2 km/h

Ans: b. 10 km/h

Explanation:

$$32/D + 36/U = 7 ----(1)$$

$$40 / D + 48 / U = 9 -----(2)$$

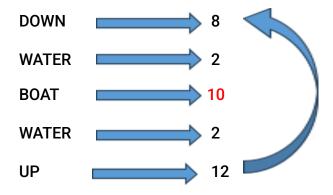
$$(32/D + 36/U) \times 4 = 10 \times 4$$

$$(40 / D + 48 / U) \times 3 = 7 \times 3$$

$$8/D = 1 D = 8 hr$$

$$36/U = 3$$

U = 12hr



Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

- 17. A man can row three-quarters of a kilometre against the stream in $11^{\frac{1}{4}}$ minutes and down the stream in $7^{\frac{1}{2}}$ minutes. The speed (in km/hr) of the man in still water is:
 - a. 2
 - b. 3
 - c. 4
 - d. 5

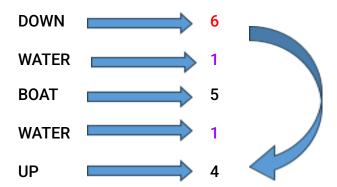
Ans: d. 5 Explanation:

U S = (3/4) km / (45/4 x 60) hr

 $= 3/4 \times 16/3 = 4 \text{ km/hr}$

 $DS = (3/4)km / (15/2 \times 60)hr$

 $= 3/4 \times 8 = 6 \text{ km/hr}$



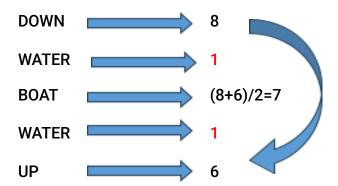
Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Topic	Boats and Streams	Last updated on	11 March 2025

- 18. A man rows to a place 48 km away and returns in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is:
 - a. 1 km/hr
 - b. 1.5 km/hr
 - c. 2 km/hr
 - d. 2.5 km/hr

Ans: a.1 km/hr Explanation:

Suppose he moves 4 km downstream in x hours. Then, Speed DS =4/xSpeed US = 3/x48 x (1/4+1/3) = 14 x=1/2

So, Speed downstream = 8 km/hr, Speed upstream = 6 km/hr.



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- 19. A boat covers a certain distance downstream in 1 hour, while it comes back in $1\frac{1}{2}$ hour. If the speed of the stream is 3 kmph, what is the speed of the boat in still water?
 - a. 12 kmph
 - b. 13 kmph
 - c. 14 kmph
 - d. 15 kmph

Ans: d. 15 kmph Explanation:

