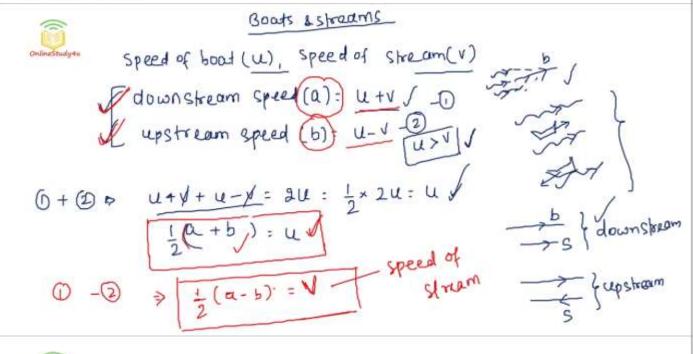
Boats and Streams



Placement for AlL. All for Placement

This Video Completely covers the "Boats and Streams" which is more than sufficient for all kind of placement Exams eg: TCS/WIPRO/AMCAT/ELITMUS/CoCubes and all other placement Exams.

Boats and Streams by : Pratik Shrivastava(10 years of industry experience and best Aptitude trainer)





1 D: S x t > clistance: speed x time

$$\frac{19}{5} \xrightarrow{\frac{18}{5}} \frac{1}{18} \xrightarrow{\frac{18}{5}} \frac{1}{18} \frac{1$$

- Q1. A can row upstream at 7km/hr and downstream at 10km/hr.find mans rate in still water and the rate of current respectively?
- a. 5.5km/hr, 7.5km/hr/b.8.5km/hr,1.5km/hr c.7.5km/hr d.none

speed of man! speed of boal upskeam speed (b): 7km/h8 downstream speed (a): loking hr

u = \frac{1}{2}(a+b)=\frac{1}{2}(10+7)=\frac{17}{2}=8.5 km/h8 $V = \frac{1}{2}(a-b) = \frac{1}{2}(10-7) = \frac{3}{2} = 1.5 \, \text{km/hr} /$ Stream RINER

Boats and Streams

- Q2) A man can row upstream at 8 kmph and downstream at 13 kmph. The speed of the stream is;
- A) 2.5 km/hr B) 4.2 km/hr
- C) 5 km/hr
- D) 10.5km/hr

B) E) 11 km/hr .

Solution:

b= 8 km | h= a = 13 km/m

speed of stream(v)= 1/2 (a-b) = 1/(13-8) = 5 2 : 2.5 km/h8

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- Q3, 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

Solution:

down cheam speed = 15 km/hr

5 = 15 - b p=lokulhe

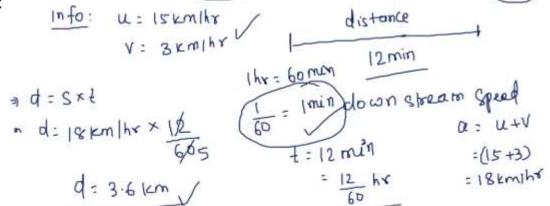
Speed of warry) = 1 (a-b) speed of warrent (V)= 2.5 km lhd

Q4.) The speed of a boat in still water in 15 km/hr and the rate of current is 3 km/hr.

The distance travelled downstream in 12 minutes is:

A.1.2 km B.1.8 km C.2.4 km D.3.6 km

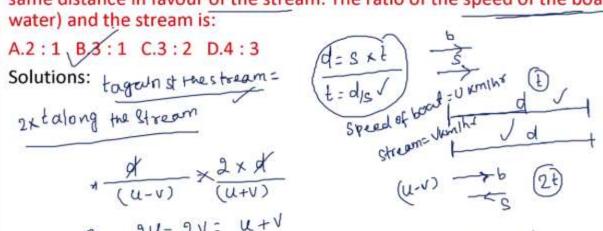
Solution:



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A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still

n 24-2V= 4+V



downstream

= 2u-u=3V u=3V A u:V=3:1

Boats and Streams

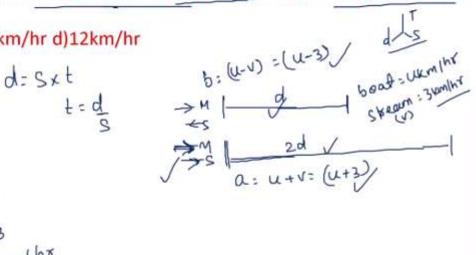
Q6)In a fixed time a boy swims double the distance along the current that he swims against the current. if the speed of the current is 3km/hr, the speed of the boy in still water is.

a)6km/hr b)9km/hr c)10km/hr d)12km/hr

Solutions:

| Info | d= Sxt |
$$t=d$$

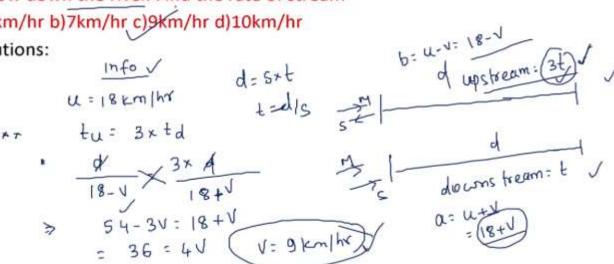
$$\frac{2d}{u+3} \times \frac{4}{u=3}$$



Q7. A man can row 18kmph in still water. It takes him thrice as long to row up as to row down the river. Find the rate of stream

a)5km/hr b)7km/hr c)9km/hr d)10km/hr

Solutions:

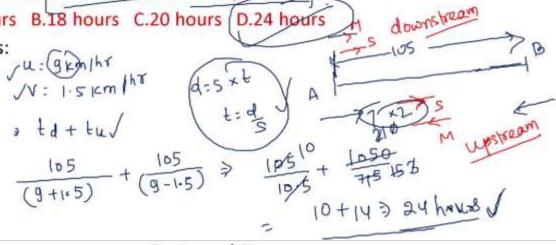


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Q8. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:

A.16 hours B.18 hours C.20 hours D.24 hours

Solutions:



Boats and Streams

Q9. A man can row 7.5 kmph in still water. If in river running at 1.5km an hour, it takes him 50minutes to row to place and back, how far off is the place?

a)1km b)2km c) 3km d)4km

Solutions:

