



Boats and Streams Questions for RRB Group-D PDF

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Instructions

For the following questions answer them individually

Question 1

A boat can cover a distance of 7.2 km downstream and 3.2 km upstream in 2 hours. It can also cover 1.5 km downstream and 0.6 km upstream in 24 minutes. What is the speed of the boat when going downstream (in km/h)?

LATEX

- A Latex 1
- B Latex 2
- C Latex 3
- D Latex 4

Answer: B

Question 2

A boat travels 30 km upstream in 10 hours and travels 52 km downstream in 4 hours. What is the time taken to cover 121 km downstream if the speeds of both stream and boat are decreased by 1 km/hr?

- A 12 hrs
- B 11 hrs
- C 10 hrs
- D 9 hrs

Answer: B

Explanation:

let the speed of the boat be 'b' and stream be 's'.

$$30/(b-s) = 10$$

$$b-s=3$$

$$52/(b+s) = 4$$

$$b+s=13$$

$$b-s=3$$

$$2b=16$$

$$b=8 \text{ km/hr}$$

$$s=5 \text{ km/hr}$$

Each is decreased by 1 km/hr so

$$b=7 \text{ km/hr}$$

$$s=4 \text{ km/hr}$$

$$\text{Time taken for 121 km downstream} = 121/11$$

$$= 11 \text{ hrs}$$

Question 3

A boat travels 120 km upstream in 6 hours and travels 90 km downstream with double the speed of upstream. What is the time taken to cover the 90 km downstream?

- A 2 hr 10 min
- B 2 hr 15 min
- C 2 hr 20 min
- D 2 hr 30 min

Answer: B

Explanation:

let the speed of the boat be 'b' and stream be 's'.

$$120/(b-s) = 6$$

$$b-s=20$$

$$\text{Given } b+s=2(b-s)$$

$$b+s=2b-2s$$

$$3s=b$$

$$3s-s=20$$

$$2s=20$$

$$s=10$$

$$b=30$$

$$\text{Time taken for 90 km downstream} = 90/40$$

$$= 2.25 \text{ hrs}$$

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Question 4

A boat at anchor is raked by waves whose consecutive crests are 125 m apart. The velocity of the wave of the moving crests is 25 m s^{-1} , What is the frequency of the rocking of the boat?

A 0.20 (Hz)

B 625 (Hz)

C 250 (Hz)

D 100 (Hz)

Answer: A

Question 5

A man can row a boat at 10 kmph in still water. If the speed of the stream is 6 kmph, the time taken to row a distance of 80 km down the stream is :

A 8 hours

B 5 hours

C 10 hours

D 20 hours

Answer: B

Question 6

Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. man rows to a place at a distance of 10.5 km and comes back to the starting point. The total time taken by him is :

A 1.6 hours

B 1.8 hours

C 2.0 hours

D 2.4 hours

Answer: D

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Question 7

A boat takes 4 hours to travel same distance 'x' upstream and downstream. If the speed of the boat is 4 km/hr and stream is 2 km/hr then find the value of x ?

- A 6 km
- B 8 km
- C 4 km
- D 10 km

Answer: A

Explanation:

Upstream speed = $4 - 2 = 2$ km/hr

Downstream speed = $4 + 2 = 6$ km/hr

Therefore we have $\frac{x}{6} + \frac{x}{2} = 4$

$4x/6 = 4$

$x = 6$ km

Instructions

Question 8

A boat takes 10 hours to travel same distance 'x' upstream and downstream. If the speed of the boat is 10 km/hr and stream is 6 km/hr then find the value of x ?

- A 24 km
- B 28 km
- C 30 km
- D 32 km

Answer: D

Explanation:

Upstream speed = $10 - 6 = 4$ km/hr

Downstream speed = $10 + 6 = 16$ km/hr

Therefore we have $\frac{x}{16} + \frac{x}{4} = 10$

$5x/16 = 10$

$x = 32$

Instructions

For the following questions answer them individually

Question 9

A boat goes 2 km upstream and 3 km downstream in 45 minutes while it goes 3 km upstream and 9 km downstream in 90 minutes. What is the speed (in km/hr) of boat when going down stream?

- A 9
- B 10.5

C 12

D 9.5

Answer: C

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Question 10

The speed of a boat in still water is 9 km/hr and the speed of stream is 3 km/hr. The difference between the upstream speed and downstream speed will be:

A 6 km/hr

B 5 km/hr

C 3.5 km/hr

D 7.5 km/hr

Answer: A

Explanation:

Speed in upstream = $9 - 3 = 6$ km/hr

Speed in downstream = $9 + 3 = 12$ km/hr

Difference = 6 km/hr

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