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Boat and Stream Questions for RBI Asst. Pre, IBPS Clerk Pre and SBI Clerk Pre Exams

Boat and Stream Quiz 8

Directions : Read the following questions carefully and choose the right answer.

1. **A man can row half a kilometre against the stream in 12.5 mins and return the same distance in 7.5 mins. Find the speed of the man in still water?**

   A. 3.6 km/hr B. 4.1 km/hr C. 3.2 km/hr D. 3.7 km/hr E. 4.3 km/hr

2. **A boat running upstream covers 24 km in 6 hours while for covering the same distance downstream it takes 5 hours. What is the speed of the current?**

   A. 0.8 km/hr B. 0.6 km/hr C. 0.5 km/hr D. 0.4 km/hr E. 0.9 km/hr

3. **Speed of man in still water is 8 km/hr and the speed of the stream is 1.5 km/hr. A man rows to a place at a distance 24.7 km and comes back to the starting point. Find the total time taken by him?**

   A. 6.4 hours B. 6.8 hours C. 7.0 hours D. 6.1 hours E. 6.2 hours

4. **Varun can row downstream 64 km in 5 hours and Suresh can row upstream 120 km in 15 hours. If the speed of current is 3.5 km/hr, then find the ratio of upstream speed of Varun and downstream speed of Suresh?**

   A. 29 : 75 B. 25 : 72 C. 28 : 71 D. 27 : 70 E. 26 : 73

5. **Downstream speed of a boat is 10% more than its upstream speed. If the boat can travel 220 km downstream and 220 km upstream in 21 hours, then find the time taken by the boat to cover 420 km in still water?**

   A. 22 hours B. 21 hours C. 15 hours D. 18 hours E. 20 hours

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6. **The ratio of speed of boat in downstream to speed of boat in upstream is 5 : 3. The time taken by boat to cover 50 km in downstream is t hours, then in t hours how much distance is travelled by boat in upstream?**

A. 30 km B. 45 km C. 27 km D. 24 km E. 28 km

7. **A boat travels downstream from A to B in 't' hours and upstream from B to A in (t + 2) hours. Find the value of (t + 4), if speed of the boat in still water is 6 km/hr and speed of current is 4 km/hr?**

A. 4.75 B. 4.5 C. 5.50 D. 5 E. 5.25

8. **A boat covers a certain distance in 5 hours in upstream. If the speed of the boat in still water is 15 km/hr and the speed of the stream is 20% less than speed of the boat in still water, then in how much time boat can cover the same distance in downstream?**

A. $\frac{110}{3}$ min B. $\frac{100}{3}$ min C. $\frac{120}{7}$ min D. $\frac{130}{6}$ min E. $\frac{150}{7}$ min

9. **The ratio of speed of boat in still water to the speed of boat in upstream is 5 : 4. The difference between speed of boat and the speed of current is 6 km/hr. Find the upstream distance covered by boat in 5 hours.**

A. 25 km B. 24 km C. 27 km D. 35 km E. 30 km

10. **Rohan can row 66 km downstream and 60 km upstream in 26 hours. Also he can row 45 km upstream and 22 km downstream in 17 hours. Find the speed of the stream?**

A. 7 km/hr B. 4 km/hr C. 5 km/hr D. 11 km/hr E. 3 km/hr

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Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	D	A	A	E	A	B	B	E	B

Explanation:

1.

$12\frac{1}{2}$ min = $\frac{25}{2 \times 60}$ = $\frac{5}{24}$ hr

$7\frac{1}{2}$ min = $\frac{15}{2 \times 60}$ = $\frac{1}{8}$ hr

Upstream speed = $\frac{(1/2)}{(5/24)}$ = $\frac{12}{5}$ km/hr

Downstream speed = $\frac{(1/2)}{(1/8)}$ = 4 km/hr

$\frac{\text{Speed of man}}{\text{boat}} = \frac{\{\text{downstream speed + upstream speed}\}}{2}$

S = $\frac{\{(12/5) + 4\}}{2}$ = 3.2 km/hr

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Hence, option C is correct.

2.

Upstream speed = $\frac{24}{6}$ = 4 km/hr

Downstream speed = $\frac{24}{5}$ = 4.8 km/hr

Speed of current = $\frac{4.8 - 4}{2}$ = 0.4 km/hr

Hence, option D is correct

3. Speed of boat = 8 km/hr, speed of current = 1.5 km/hr

Downstream speed = 9.5 km/hr, upstream speed = 6.5 km/hr

Total time = $\frac{24.7}{9.5} + \frac{24.7}{6.5}$

= 2.6 + 3.8 = 6.4 hours

Hence, option A is correct.

4. Varun,

Downstream speed = $\frac{64}{5}$ = 12.8 km/hr

V1 + 3.5 = 12.8

V1 = 9.3 km/hr

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Upstream speed = 9.3 – 3.5 = 5.8 km/hr

Suresh,

Upstream speed = $\frac{120}{15}$ = 8 km/hr

V2 – 3.5 = 8

V2 = 11.5 km/hr

Downstream speed = 11.5 + 3.5 = 15 km/hr

Ratio = $\frac{5.8}{15} = \frac{29}{75}$

Hence, option A is correct.

5.

$10\% = \frac{1}{10}$

	Upstream	Downstream
Speed	10	11

Distance is same for downstream and upstream, so speed will be inversely proportional to time.

Time	11	10

Total time is 21 hours, so it can be taken as 11 hours for upstream and 10 hours for downstream.

Upstream Speed = $\frac{220}{11}$ = 20 km/h

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Downstream Speed = $\frac{220}{10}$ = 22 km/h

Speed of boat = $\frac{20 + 22}{2}$ = 21 km/hr

Time taken to cover 420 km = $\frac{420}{21}$ = 20 hours

Hence, option E is correct.

6. Upstream Speed = 3s

Downstream speed = 5s

Distance = speed × time

D = 5st

50 = 5st

$t = \frac{10}{s}$

In upstream,

$\text{Distance} = \frac{3s \times 10}{s}$

D = 30 km

Hence, option A is correct.

7. Speed of current = 4 km/hr

Speed of boat in still water = 6 km/hr

Distance is same,

Downstream speed = 4 + 6 = 10 km/hr

Upstream speed = 6 – 4 = 2 km/hr

10 × t = 2 (t + 2)

10t = 2t + 4

8t = 4

$t = \frac{1}{2}$

$t + 4 = \frac{1}{2} + 4 = 4.5$

Hence, option B is correct.

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8. B = 15 km/hr

$C = 15 - 15 \times \frac{20}{100} = 15 - 3 = 12$ km/hr

Downstream speed = 15 + 12 = 27 km/hr

Upstream speed = 15 – 12 = 3 km/hr

Distance = speed × time

D = 3 × 5 = 15 km

Time = $\frac{15}{27}$

Time = $\frac{5 \times 60}{9} = \frac{100}{3}$ min.

Hence, option B is correct.

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9. B → 5

Upstream speed → 4

B – C = Upstream speed

5 – C = 4

C = 1

4 is corresponding to 6

Upstream distance = 6 × 5 = 30 km

Hence, option E is correct.

10. Let the speed of boat be B and speed of stream be S.

$$\frac{66}{(B+S)} + \frac{60}{(B-S)} = 26$$

$$\frac{22}{(B+S)} + \frac{45}{(B-S)} = 17$$

In the equations, 66 and 22 is divided by B + S,

Their highest common factor is 11.

Put B + S = 11

$$\frac{66}{11} + \frac{60}{(B-S)} = 26$$

$$6 + \frac{60}{(B-S)} = 26$$

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$$\frac{60}{(B-S)} = 20$$

$$B - S = 3 \ldots(i)$$

$$\frac{22}{11} + \frac{45}{(B-S)} = 17$$

$$2 + \frac{45}{(B-S)} = 17$$

$$\frac{45}{(B-S)} = 15$$

$$B - S = 3 \ldots(ii)$$

The value of B – S in both the cases is same, so the assumed value B + S = 11 is correct.

So, B + S = 11, B – S = 3

$B = \frac{14}{2} = 7$

S = 4 km/hr

Hence, option B is correct.

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