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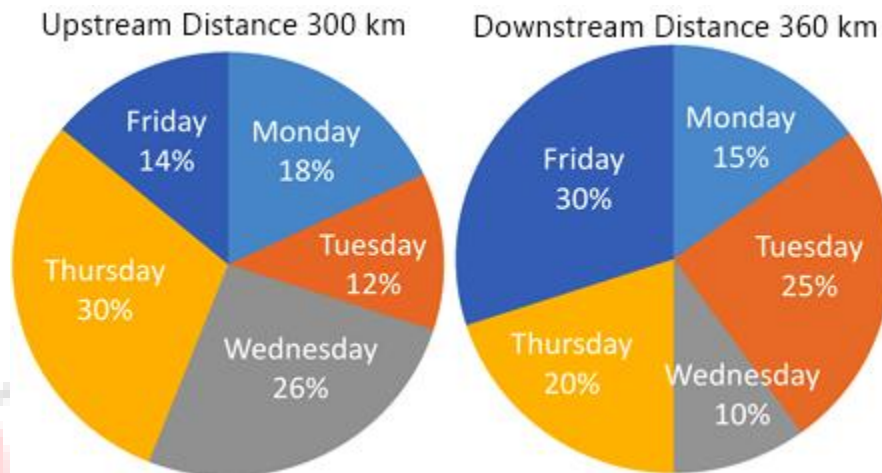
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Date Interpretation Mixed Chart Questions Quiz for IBPS PO Mains, SBI PO Mains, RBI Grade B Exams.

Data Interpretation Mixed Chart Quiz 26

Direction: Study the following pie chart and bar chart carefully and answer the questions based on it.

Some values are missing. Answer the questions on the basis of given table and information in question. Speed of stream is same for both upstream and downstream distance on respective days



Day	Speed of stream (in km/hr)
Monday	3
Tuesday	-
Wednesday	2
Thursday	2.5
Friday	3

1. Time taken to cover upstream distance on Friday is same as time taken to cover the downstream distance on Thursday. Total speed of boat in still water on Thursday and Friday is 10 km/hr .Find the ratio of speed of boat in still water on Thursday and Friday?

- A. 4 : 11 B. 7 : 13 C. 4 : 15 D. 6 : 13 E. None of these

2. On Monday, the boat takes a total of 9hrs to cover both upstream and downstream distance. Ratio of speed of boat in still water in upstream to downstream is 4:5. Find the speed of boat in still water while going downstream.

- A. 13 km/hr B. 15 km/hr C. 9 km/hr D. 10 km/hr E. 12 km/hr

3. The ratio of speed of boat in still water in going upstream to downstream on Tuesday is 3 : 8. Also difference in speed of boat in still water in going upstream and downstream is 5 km/hr. If the total time taken by boat to cover upstream and downstream distance is 14 hours on Tuesday, find the speed of stream.

A. 2 km/hr

B. 1 km/hr

C. 3 km/hr

D. 2.5 km/hr

E. 1.5 km/hr

Correct Answers:

1	2	3
B	B	B

Explanations:

1.

$$\text{Upstream distance on Friday} = \frac{14}{100} \times 300 = 42 \text{ km}$$

$$\text{Downstream distance on Thursday} = \frac{20}{100} \times 360 = 72 \text{ km}$$

Let the speed of boat in still water on Friday be x

Therefore, speed of boat in still water on Thursday = $10 - x$

Now,

Upstream speed on Friday = $x - 3$

Downstream speed on Thursday = $(10 - x) + 2.5$

$$\frac{42}{x - 3} = \frac{72}{\{(10 - x) + 2.5\}}$$

$$\Rightarrow 87.5 - 7x = 12x - 36 \Rightarrow x = 6.5 \text{ Km/hr}$$

Hence, Ratio = $3.5 : 6.5 = 7 : 13$

Therefore, option (B) is correct.

2.

$$\text{Upstream distance on Monday} = \frac{18}{100} \times 300 = 54 \text{ km}$$

$$\text{Downstream distance on Monday} = \frac{15}{100} \times 360 = 54 \text{ km}$$

Speed of boat in still water upstream and downstream is $4x$ and $5x$ respectively

$$\frac{54}{4x - 3} + \frac{54}{5x + 3} = 9$$

$$\Rightarrow x = 3 \text{ km/hr Hence, downstream speed} = 5x = 15 \text{ km/hr}$$

Therefore, option (B) is correct.

3.

$$\text{Upstream distance on Tuesday} = \frac{12}{100} \times 300 = 36 \text{ km}$$

$$\text{Downstream distance on Tuesday} = \frac{25}{100} \times 360 = 90 \text{ km}$$

Speed of boat in still water downstream and upstream is $8x$ and $3x$ respectively

$$\text{Therefore, } 8x - 3x = 5$$

$$\text{So } x = 1$$

Speeds are 8km/hr and 3 km/hr

Now,

$$\frac{36}{3-y} + \frac{90}{8+y} = 28$$

$$\Rightarrow y = 1 \text{ km/hr}$$

Hence, option (B) is correct.



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