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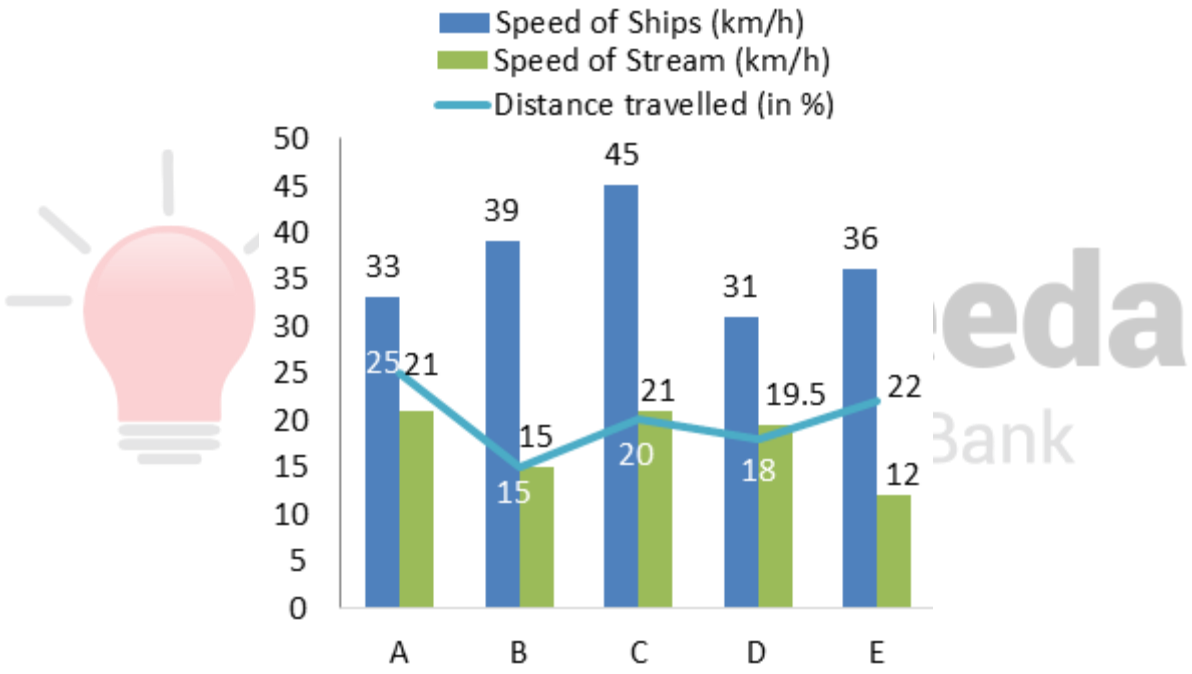
The Question Bank

DI Bar Chart Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains, LIC AAO, RBI Asst. Pre and RRB Scale I Pre Exams.

DI Bar Chart No 60

Directions: Study the following bar chart carefully and answer the questions given beside.

In the following figure, the bar graph shows the speeds (in km/h) of five different ships in a river and the speed of the water (in km/h) and the line graph shows the percentage of distance (in %) travelled by all the five ships.



1. Two friends Nitin and Mukesh decided to travel 675 km till point P in downstream. Nitin is on ship B and Mukesh is on ship D. After 510 km, Mukesh's ship broke down but immediately he got help from Neil, who is travelling in the same direction as Mukesh and is on Ship E.

Quantity I : Time taken by Nitin to reach point P.

Quantity II : Time taken by Mukesh to reach on point P.

A. Quantity I ≥ Quantity II
B. Quantity I ≤ Quantity II
C. Quantity I = Quantity II or No relation
D. Quantity I > Quantity II
E. Quantity I < Quantity II

2. **The speed of another ship, F is 11.11% more than the speed of ship C and speed of stream (for Ship F) is 25% more than the speed of stream for ship E.**

Quantity I : Find the time taken by ship F to cover a distance of 2625 km in upstream direction.

Quantity II : Find the time taken by ship C to cover a distance of 1860 km in upstream direction.

A. Quantity I ≥ Quantity II
B. Quantity I < Quantity II
C. Quantity I = Quantity II or No relation
D. Quantity I > Quantity II
E. Quantity I ≤ Quantity II

3. **The total distance is increased by 25%.**

Quantity I : The time taken by ship C to cover the new distance in upstream.

Quantity II : The time taken by ship A to cover old distance in downstream.

A. Quantity I ≥ Quantity II
B. Quantity I ≤ Quantity II
C. Quantity I = Quantity II or No relation
D. Quantity I > Quantity II
E. Quantity I < Quantity II

4. **Time taken by ship A and B together to travel their respective destinations in downstream is approximately _____ percent more or less than time taken by ship E to travel its destination in upstream.**

A. 23.76% Less
B. 23.76% More
C. 19.2% Less
D. 19.2% More
E. None of these

5. **Quantity I :** The average time taken by all the ships to cover their respective distances in upstream.

Quantity II : Time taken by ship E to travel 1728 km in still water.

A. Quantity I ≥ Quantity II
B. Quantity I ≤ Quantity II
C. Quantity I = Quantity II or No relation
D. Quantity I > Quantity II
E. Quantity I < Quantity II

Correct Answers:

1	2	3	4	5
E	B	D	C	E

Explanations :

1. **Quantity I :**

Time taken by Nitin (using ship B)

$= \frac{675}{39 + 15} = \frac{675}{54} = 12.5$ hour

Quantity II :

Time taken by Mukesh (using Ship D + Ship E)

$= \frac{510}{31 + 19.5} + \frac{165}{36 + 12} = 10.01 + 3.437 = 13.447$ hours

Here, Quantity I < Quantity II

Hence, option E is correct.

2. **Quantity I :**

Speed of ship F = 45 × 111.11% = 50 km/hr

Speed of stream for ship F = 12 × 125% = 15 km/hr

Time taken by ship F to cover 1860 km (upstream)

$= \frac{2625}{50 - 15} = \frac{2625}{35} = 75$ hours

Quantity II :

Time taken by ship C to cover 1860 km (upstream)$= \frac{1860}{24} = 77.5$ hours

Hence, option B is correct.

3. New Distance = 3000 × 125% = 3750 km

Quantity I:

Time taken by ship C to cover new distance (upstream)

$$= \frac{3750 \times 20\%}{24} = \frac{750}{24} \text{ hours}$$

Quantity II :

Time taken by ship A to cover old distance (downstream)

$$= \frac{750}{54} = \frac{125}{9} \text{ hours}$$

Hence, option D is correct.

4. Time taken by ship B (in downstream)

$$= \frac{450}{54} = \frac{150}{18} \text{ hour}$$

Time taken by ship A (in downstream)

$$= \frac{750}{54} = \frac{250}{18} \text{ hour}$$

Time taken by ship B + ship A

$$= \frac{250}{18} + \frac{150}{18} = \frac{400}{18} \text{ hour} = 22.22 \text{ hours}$$

Time taken by ship E (in upstream)

$$= \frac{660}{24} = \frac{55}{2} \text{ hour} = 27.5 \text{ hours}$$

Time taken by ship B and A (in downstream) is percent more or less than time taken by ship E (in upstream)

$$= \frac{22.22 - 27.5}{27.5} \times 100 = -19.2\%$$

Hence, option C is correct.

5. **Quantity I :**

Time taken by ship A (upstream) = $\frac{750}{12} = \frac{125}{2}$ hours

Time taken by ship B (upstream) = $\frac{450}{24} = \frac{75}{4}$ hours

Time taken by ship C (upstream) = $\frac{600}{24}$ = 25 hours

Time taken by ship D (upstream) = $\frac{540}{11.5}$ = 45 hours

Time taken by ship E (upstream) = $\frac{660}{24} = \frac{55}{2}$ hours

After adding all the times we get = 180.70 hours

Average Time = $\frac{180.70}{5}$ = 36.14 hour

Quantity II:

Time taken by ship E to cover 1728 km in still water

= $\frac{1728}{36}$ = 48 hours

Hence, option E is correct.