

# RBI PHASE 1 RECAP

8<sup>th</sup> August '18

QUANT – Data Interpretation (based on  
Time, Speed and Distance)

## DATA INTERPRETATION (based on Time, Speed and Distance)

1.) Study the following table carefully and answer the questions that follow. The Chart is showing the schedule of the train 'Coro Mandal Express' including times of arrival and departure from Madras to Calcutta.

Place	Cumulative Distance (in kms.)	Arrival time (in hrs.)	Departure time (in hrs.)
Madras	0	-	08:00
Nellore	200	11:20	11:30
Vijayawada	525	15:30	16:00
Rajamundry	700	19:20	19:30
Visakhapatnam	1100	01:10	01:30
Bhubaneshwar	1450	03:45	04:00
Kharagpur	1600	07:25	07:30
Calcutta	1925	09:30	-

## DATA INTERPRETATION (based on Time, Speed and Distance)

**Q.1) If the distance between Visakhapatnam to Bhubaneshwar is 45 km less than the mentioned in the table and the distance between Nellore to Vijaywada is 30 km more than mentioned in the table. Find the ratio between the distance from Visakhapatnam to Calcutta and from Nellore to Visakhapatnam.**

- [a] 26 : 31**
- [b] 31 : 26**
- [c] 28 : 33**
- [d] 33 : 22**

**Solution (a)**

**Distance from Visakhapatnam to Calcutta =  $1925 - 1100 - 45 = 780$  km.**

**Distance from Nellore to Visakhapatnam =  $1100 - 200 + 30 = 930$  km.**

**Ratio =  $780 : 930$   
=  $26 : 31$**

## DATA INTERPRETATION (based on Time, Speed and Distance)

1.) Study the following table carefully and answer the questions that follow. The Chart is showing the schedule of the train 'Coro Mandal Express' including times of arrival and departure from Madras to Calcutta.

Place	Cumulative Distance (in kms.)	Arrival time (in hrs.)	Departure time (in hrs.)
Madras	0	-	08:00
Nellore	200	11:20	11:30
Vijayawada	525	15:30	16:00
Rajamundry	700	19:20	19:30
Visakhapatnam	1100	01:10	01:30
Bhubaneshwar	1450	03:45	04:00
Kharagpur	1600	07:25	07:30
Calcutta	1925	09:30	-

## DATA INTERPRETATION (based on Time, Speed and Distance)

**Q.2) If the halt time of the train at Nellore is increased by 28 minutes and the halt time at Vijayawada is decreased by 5 minutes. At what time will the train reach Rajahmundry?**

- [a] 20:43 hours**
- [b] 19:43 hours**
- [c] 10:12 hours**
- [d] none of these**

**Solution**

**The train will reach at Rajamundry = 19:20 + 28  
– 5  
= 19:48 – 5  
= 19:43 hours**

## DATA INTERPRETATION (based on Time, Speed and Distance)

1.) Study the following table carefully and answer the questions that follow. The Chart is showing the schedule of the train 'Coro Mandal Express' including times of arrival and departure from Madras to Calcutta.

Place	Cumulative Distance (in kms.)	Arrival time (in hrs.)	Departure time (in hrs.)
Madras	0	-	08:00
Nellore	200	11:20	11:30
Vijayawada	525	15:30	16:00
Rajamundry	700	19:20	19:30
Visakhapatnam	1100	01:10	01:30
Bhubaneshwar	1450	03:45	04:00
Kharagpur	1600	07:25	07:30
Calcutta	1925	09:30	-

## DATA INTERPRETATION (based on Time, Speed and Distance)

**Q.3) Amongst the routes given below, on which route, the speed of the train is the second highest?**

- [a] Madras to Nellore**
- [b] Nellore to Vijayawada**
- [c] Vijayawada to Rajahmundry**
- [d] Kharagpur to Calcutta**

**Solution (b)**

**Speed = distance / time**

**Speed of the train from:**

**Madras to Nellore:**

**distance = 200 km.**

**Time taken = 3 hrs. 20 minutes or 200 minutes**

**Speed =  $200 / 200 \times 60 = 60$  Kmph**

**Nellore to Vijayawada:**

**distance = 325 km.**

**Time taken = 4 hrs.**

**speed =  $325 / 4 = 81.25$  Kmph**

**Vijayawada to Rajahmundry:**

**Distance = 175 km.**

**Time taken = 3 hrs. 20 minutes or 200 minutes**

**Speed =  $175 / 200 \times 60 = 52.5$  Kmph**

**Kharagpur to Calcutta:**

**Distance = 325 km.**

**Time taken = 2 hrs.**

**Speed =  $325 / 2 = 162.5$  kmph**

**Hence, the second highest speed is from Nellore to Vijayawada.**

## DATA INTERPRETATION (based on Time, Speed and Distance)

1.) Study the following table carefully and answer the questions that follow. The Chart is showing the schedule of the train 'Coro Mandal Express' including times of arrival and departure from Madras to Calcutta.

Place	Cumulative Distance (in kms.)	Arrival time (in hrs.)	Departure time (in hrs.)
Madras	0	-	08:00
Nellore	200	11:20	11:30
Vijayawada	525	15:30	16:00
Rajamundry	700	19:20	19:30
Visakhapatnam	1100	01:10	01:30
Bhubaneshwar	1450	03:45	04:00
Kharagpur	1600	07:25	07:30
Calcutta	1925	09:30	-



## DATA INTERPRETATION (based on Time, Speed and Distance)

Q.4) The overall average speed of the entire journey excluding halt time is nearly:

- [a] 64.1 kmph
- [b] 80.2 kmph
- [c] 142.6 kmph
- [d] 160.4 kmph

Solution (b)

Speed = distance / time

distance = 1925

time = total time – halt time

= 25 hrs. 30 minutes- 1 hrs. 30 minutes

= 24 hrs.

Speed =  $1925 / 24 = 80.2$  kmph

## DATA INTERPRETATION (based on Time, Speed and Distance)

1.) Study the following table carefully and answer the questions that follow. The Chart is showing the schedule of the train 'Coro Mandal Express' including times of arrival and departure from Madras to Calcutta.

Place	Cumulative Distance (in kms.)	Arrival time (in hrs.)	Departure time (in hrs.)
Madras	0	-	08:00
Nellore	200	11:20	11:30
Vijayawada	525	15:30	16:00
Rajamundry	700	19:20	19:30
Visakhapatnam	1100	01:10	01:30
Bhubaneshwar	1450	03:45	04:00
Kharagpur	1600	07:25	07:30
Calcutta	1925	09:30	-

## DATA INTERPRETATION (based on Time, Speed and Distance)

Q.5) If the speed of the train increases during the journey from Bhubaneswar to Kharagpur with 6 kmph, how much time it will take to reach at Kharagpur?

- [a] 2 hrs. 50 min.
- [b] 3 hrs. 10 min.
- [c] 3 hrs. 20 min.
- [d] 3 hrs.

Solution (d)

Initial Speed of the train = distance / time  
= 150 / 3 hrs. 25 min. or 205 minutes

=  $150 / 205 \times 60$

= 44 kmph

Speed increased by 6 kmph so, the new speed = 50 kmph

Time = distance / speed

Time taken to reach =  $150 / 50$   
= 3hrs.