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DI Table Chart Quiz No. 61

Directions: Study the following table charts carefully and answer the questions given beside.

Given three tables shows the distance from one city to another city in kilometers. It is also known that distance between any two cities will be same for every type of transportation.

| Cities | Faridabad | Meerut | Varanasi | Amritsar | Allahabad |
|-----------|-----------|--------|----------|----------|-----------|
| Delhi | 30 | 70 | 800 | 460 | 670 |
| Kanpur | 490 | 520 | 330 | 940 | 220 |
| Lucknow | 530 | 560 | 380 | 1000 | 200 |
| Ghaziabad | 45 | 45 | 800 | 480 | 680 |
| Ludhiana | 350 | 300 | 1120 | 140 | 1000 |
| Agra | 210 | 250 | 610 | 670 | 520 |

| Cities | Chandigarh | Bareilly | Moradabad | Gurgaon |
|-----------|------------|----------|-----------|---------|
| Faridabad | 280 | 270 | 180 | 40 |
| Meerut | 230 | 210 | 120 | 110 |
| Varanasi | 1060 | 590 | 670 | 840 |
| Amritsar | 230 | 650 | 560 | 520 |
| Allahabad | 940 | 470 | 570 | 720 |

| Cities | Aligarh | Jalandhar | Raebareli |
|------------|---------|-----------|-----------|
| Chandigarh | 390 | 150 | 850 |
| Bareilly | 170 | 570 | 350 |
| Moradabad | 140 | 480 | 450 |
| Gurgaon | 170 | 440 | 620 |

1. What is the total distance travelled by a traveller if he started his journey from Agra and then goes to Allahabad and then from Allahabad to Moradabad and finally from Moradabad to Aligarh?

A. 1230 km B. 1350 km C. 1440 km D. 1050 km E. None of these

2. If a train goes from Lucknow to Jalandhar via Allahabad and Moradabad and speed of train till Moradabad was 50 km/h and after Moradabad the speed of train was decreased by 10 km/h, then find the time taken by train to cover that journey from Lucknow to Jalandhar.

A. 22.4 hours B. 27.4 hours C. 33.4 hours D. 25.4 hours E. None of these

3. A person wants to go to Raebareli from Meerut by his car. Find that by which of the following routes given in options he can reach at Raebareli by travelling minimum distance?

A. Meerut - Gurgaon – Raebareli B. Meerut - Moradabad - Raebareli
C. Meerut - Bareilly - Raebareli D. Meerut - Chandigarh - Raebareli E. Both B and C

4. If rail fare is Rs.5 per km, bus fare is Rs.10 per km and air fare is Rs.20 per km, then find the total fare for Raju if he goes from Delhi to Allahabad by air, from Allahabad to Bareilly by Train and from Bareilly to Jalandhar by bus.

A. Rs. 19450 B. Rs. 20450 C. Rs. 21450 D. Rs. 22450 E. None of these

5. Ramesh started his journey from Ludhiana at 4 AM and reached Varanasi by Train. He took 45 minutes to reach Bus station from Railways station in Varanasi and took a bus to Gurgaon and reached there at 6:45 AM next day. If ratio of speed of train to bus is 8 : 7, then find the speed of train.

A. 60 km/h B. 75 km/h C. 90 km/h D. 80 km/h E. None of these

6. Find the average of distances from Delhi to Chandigarh via Faridabad, Meerut, Varanasi, Amritsar and Allahabad.

A. 854 km B. 954 km C. 1054 km D. 754 km E. None of these

Correct Answers:

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

Explanations:

1.

Total distance travelled between:

Agra and Allahabad = 520 km

Allahabad and Moradabad = 570 km

Moradabad and Aligarh = 140 km

by the traveller = $520 + 570 + 140 = 1230$ km

Hence, option A is correct.

2.

Total distance travelled by train between Lucknow and Moradabad

= Distance between Lucknow and Allahabad + Distance between Allahabad and Moradabad

= $200 + 570 = 770$ km

Time taken by train to reach Moradabad from Lucknow

$$= \frac{770}{50} = 15.4 \text{ hours}$$

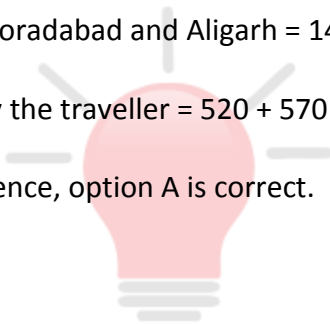
Total distance travelled by train between Moradabad and Jalandhar = 480 km

Time taken by train to reach Jalandhar from Moradabad

$$= \frac{480}{40} = 12 \text{ hours}$$

Time taken by train to cover the journey from Lucknow to Jalandhar = $15.4 + 12 = 27.4$ hours

Hence, option B is correct.



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3.

Distance between Meerut and Raebareli via

$$\text{Gurgaon} = 110 + 620 = 730 \text{ km}$$

$$\text{Moradabad} = 120 + 450 = 570 \text{ km}$$

$$\text{Bareilly} = 210 + 350 = 560 \text{ km}$$

$$\text{Chandigarh} = 230 + 850 = 1080 \text{ km}$$

Hence, distance between Meerut and Raebareli via Bareilly is minimum.

Hence, option C is correct.

4.

$$\text{Distance between Delhi to Allahabad} = 670 \text{ km}$$

$$\text{Total air from Delhi to Allahabad} = 670 \times 20 = \text{Rs.13400}$$

$$\text{Distance between Allahabad to Bareilly} = 470 \text{ km}$$

$$\text{Total rail from Allahabad to Bareilly} = 470 \times 5 = \text{Rs.2350}$$

$$\text{Distance between Bareilly to Jalandhar} = 570 \text{ km}$$

$$\text{Total bus from Bareilly to Jalandhar} = 570 \times 10 = \text{Rs.5700}$$

$$\text{Total fare} = 13400 + 2350 + 5700 = \text{Rs.21450}$$

Hence, option C is correct.

5.

Let speed of train and bus is '8x' and '7x' respectively.

$$\text{Total time taken by Ramesh to reach Gurgaon from Ludhiana} = 24 + (6:45 - 4:00)$$

$$= 24 + 2 + \frac{45}{60} = 26.75 \text{ hours}$$

Distance travelled from Ludhiana to Varanasi by train = 1120 km

Distance travelled from Varanasi to Gurgaon by train = 840 km

$$\text{Total time taken} = \frac{1120}{8x} + \frac{45}{60} + \frac{840}{7x} = 26.75$$

$$\Rightarrow \frac{140}{x} + 0.75 + \frac{120}{x} = 26.75$$

$$\Rightarrow \frac{260}{x} = 26$$

$$\Rightarrow x = 10$$

Speed of train = $8x = 8 \times 10 = 80$ km/h

Hence, option D is correct.

6.

Distances from Delhi to Chandigarh via -

Faridabad = $30 + 280 = 310$ km

Meerut = $70 + 230 = 300$ km

Varanasi = $800 + 1060 = 1860$ km

Amritsar = $460 + 230 = 690$ km

Allahabad = $670 + 940 = 1610$ km

$$\text{Reqd. average} = \frac{310 + 300 + 1860 + 690 + 1610}{5} = 954 \text{ km}$$

Hence, option B is correct.





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