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(SBI PO 2018)
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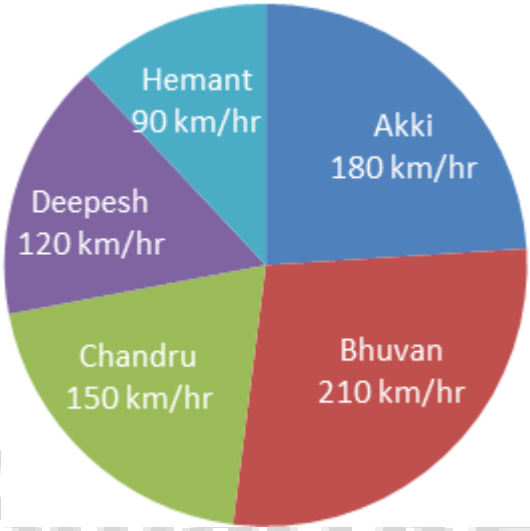
Date Interpretation Pie Chart Questions for IBPS Clerk Pre, SBI Clerk Pre and IBPS RRB Exams.

DI Pie Chart Quiz 49

Direction : Study the following pie charts carefully and answer the questions given beside.

The data given below shows the speed of 5 persons – Akki, Bhuvan, Chandru, Deepesh and Hemant travelling from city X to city Y. Distance between X and Y is 360 km.



Questions :

1. What is the average speed of the five persons?

A. 120 km/hr B. 110 km/hr C. 150 km/hr D. 130 km/hr E. 140 km/hr

2. What is the ratio of the time taken by Akki and Bhuvan together to reach city Y from X to that of Deepesh and Chandru together to cover same distance?

A. $\frac{189}{130}$ B. $\frac{130}{189}$ C. $\frac{111}{325}$ D. $\frac{441}{378}$ E. $\frac{378}{441}$

3. The difference between the speed of Chandru and Hemant is what percent of the speed of Deepesh?

A. 60% B. 65% C. 55% D. 50% E. 48%

4. What will be the average speed if one person with speed 80 km/hr is also included?

A. 137 km/hr B. 140 km/hr C. 142 km/hr D. 150 km/hr E. 138.33 km/hr

5. What will be the difference between time taken by Akki and Deepesh if the distance is reduced to 270 km but their speed remains same?

A. 40 mins. B. 45 mins. C. 50 mins. D. 65 mins. E. 55 mins.

Correct Answers:

1	2	3	4	5
C	B	D	E	B

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Answers :

1.

Average speed = $\frac{180 + 210 + 150 + 120 + 90}{5}$

Average speed = $\frac{750}{5}$ = 150 km/hr

Hence, option C is correct.

2.

Time taken by Akki = $\frac{360}{180}$ = 2 hours

Time taken by Bhuvan = $\frac{360}{210}$ = 12/7 hours

Time taken by Deepesh = $\frac{360}{120}$ = 3 hours

Time taken by Chandru = $\frac{360}{150}$ = 12/ 5 hours

Reqd. ratio = $\frac{2 + 12/7}{3 + 12/5}$

$\rightarrow \frac{26 \times 5}{27 \times 7} = \frac{130}{189}$

Hence, option B is correct.

3. Speed of Chandru = 150 km/hr

Speed of Hemant = 90 km/hr

Speed of Deepesh = 120 km/hr

Difference between speed of Chandru and Hemant = 150 – 90 = 60 km/hr

Reqd. % = $\frac{60 \times 100}{120}$ = 50%

Hence, option D is correct.

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4. Number of persons = 5 + 1 = 6

Average speed = $\frac{180 + 210 + 150 + 120 + 90 + 80}{6}$ = 138.33 km/h

Hence, option E is correct.

5. New Distance = 270 km

Speed of Akki = 180 km/hr

Time taken by Akki = $\frac{270}{180}$ = 1 hr 30 mins.

Speed of Deepesh = 120 km/hr

Time taken by Deepesh = $\frac{270}{120}$ = 2 hrs 15 mins

Required difference = 2 hrs 15 mins – (1 hr 30 mins) = 45 mins.

Hence, option B is correct.

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