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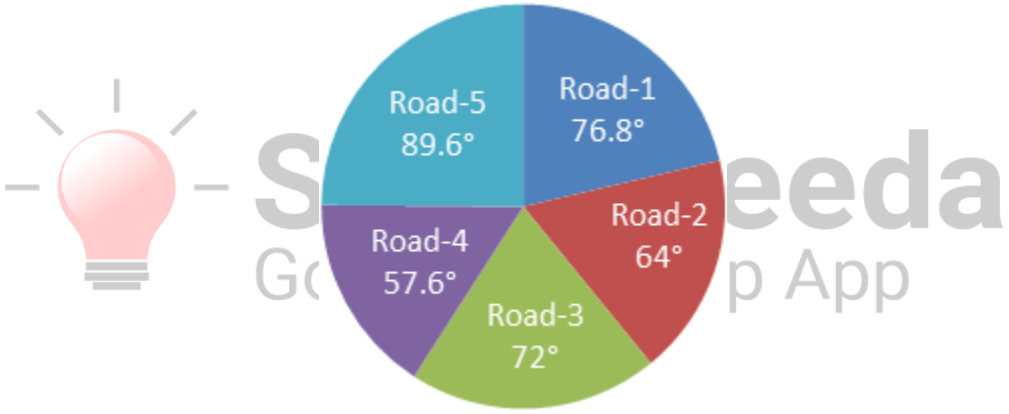
Pie Chart Questions for IBPS RRB Scale I (Main) Exams – Pie Chart Quiz at Smartkeeda.

DI Pie Chart No 75

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

A long road of length 225 km has been divided into five parts. From one end, the first part is named road-1, after it is road-2, and so on till road-5. The pie chart shows the length of each part in degrees.



Five drivers namely A, B, C, D, and E sit in a car and are assigned to drive at a given speed on a given day on two days namely day-1 and day-2. On both days, A drives on road-1, then B drives on road-2 and so on. The time they took on their respective parts is given in the table below.

	Day-1 (time in min : sec)	Day-2 (time in min : sec)
A	48 : 00	40 : 00
B	40 : 00	48 : 00
C	60 : 00	54 : 00
D	54 : 00	45 : 00
E	52 : 30	46 : 40

Note: All drivers drove with a uniform speed on their respective roads.

1. One driver among the five drivers drove with less speed on day-2 as compared to day-1. Find what percent his speed was less on day-2 as compared to day-1.

A. 12.5% B. 11.11% C. 16.67% D. 20% E. None of these

2. Find the ratio of speeds of driver D on day 1 and day 2.

A. 5:4 B. 5:6 C. 5:7 D. 4:5 E. 2:5

3. Find approximate average speed of the car on day 1.

A. 53 kmph B. 60 kmph C. 66 kmph D. 72 kmph E. 80 kmph

4. Which driver drove with highest speed on day-2?

A. A B. B and C C. A and B D. E E. A and E

5. If drivers C and E exchange their roads on day-1, by how many minutes the time taken to cover the entire road by the five drivers will increase/decrease if C and E drive with their respective speeds as they drove earlier?

A. 4.2 min B. 3.5 min C. 4.5 min D. 5.6 min E. 4.8 min

Correct Answers:

1	2	3	4	5
C	C	C	C	C

Common Explanations (1-5):

From pie chart,

Length of road-1 = $\frac{76.8}{360} \times 225 = 48$ km

Length of road-2 = $\frac{64}{360} \times 225 = 40$ km

Length of road-3 = $\frac{72}{360} \times 225 = 45$ km

Length of road-4 = $\frac{57.6}{360} \times 225 = 36$ km

Length of road-5 = $\frac{89.6}{360} \times 225 = 56$ km

Speed of A on Day-1 = $\frac{48 \text{ km}}{48 \text{ min}} \times 60$ min/h = 60 kmph

Speed of A on Day-2 = $\frac{48 \text{ km}}{40 \text{ min}} \times 60$ min/h = 72 kmph

Similarly we find for each driver.

	Speed (kmph) Day-1	Speed (kmph) Day-2
A	60	72
B	60	50
C	45	50
D	40	48
E	64	72

1.

From the common explanation, we have

Speed of drives B decreased from 60 kmph on day-1 to 50 kmph on day-2.

The percent decrease $=\frac{10}{60} \times 100 = 16.67\%$

Hence, option C is correct.

2.

Ratio of speeds = 40:48 = 5:6

Hence, option B is correctFrom the common explanation, we have

Speed of drives B decreased from 60 kmph on day-1 to 50 kmph on day-2.

The percent decrease $=\frac{10}{60} \times 100 = 16.67\%$

Hence, option C is correct.

3.

Total time on day-1 = 48 + 40 + 60 + 54 + 52.5 = 254.5 min = (254.5/60) h ≈ (254/60) h

Average speed = 225/(254/60) = 53 kmph

Hence, option A is correctFrom the common explanation, we have

Speed of drives B decreased from 60 kmph on day-1 to 50 kmph on day-2.

The percent decrease $=\frac{10}{60} \times 100 = 16.67\%$

Hence, option C is correct.

4.

From the common explanation, we have

A and E both drove with 72 kmph which was highest among them.

Hence, option E is correctFrom the common explanation, we have

Speed of drives B decreased from 60 kmph on day-1 to 50 kmph on day-2.

The percent decrease $= \frac{10}{60} \times 100 = 16.67\%$

Hence, option C is correct.

5.

From the common explanation, we have

In actual situation the time = 48 + 40 + 60 + 54 + 52.5 = 254.5 min

Total time by C and E = 60 + 52.5 = 112.5 = 1.875 h

In the given situation, C will drive on road-5 and E will drive on road-3.

The time to cover road-5 by C

$= \frac{56 \text{ km}}{45 \text{ kmph}} \approx 1.25 \text{ h}$

The time to cover road-3 by E

$= \frac{45 \text{ km}}{64 \text{ kmph}} \approx 42 \text{ m} = 0.7 \text{ h}$

Total time = 1.25 + 0.7 = 1.95 h

DIncrease in time = 1.95 – 1.875 = 0.075 h = 4.5 min

Hence, option C is correctFrom the common explanation, we have

Speed of drives B decreased from 60 kmph on day-1 to 50 kmph on day-2.

The percent decrease $=\frac{10}{60}\times 100 = 16.67\%$

Hence, option C is correct.