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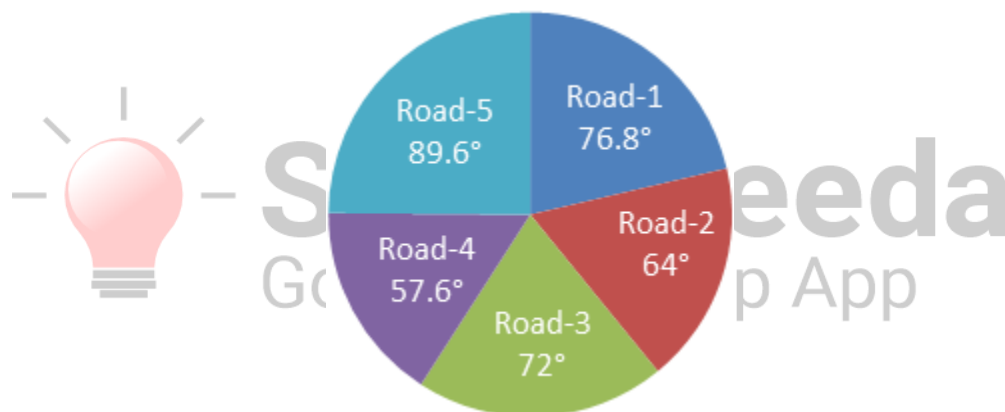
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Pie Chart Questions for IBPS RRB Scale I (Main) Exams – Pie Chart Quiz at Smartkeeda.

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



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Common Explanations (1-5):

From pie chart,

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

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

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

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

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

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

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

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



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1.

From the common explanation, we have

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

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

Hence, option C is correct.

2.

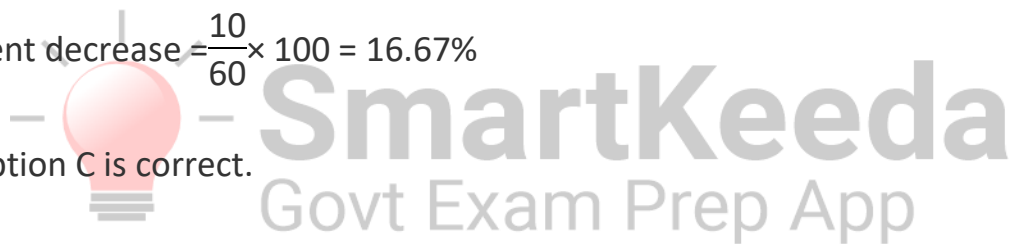
Ratio of speeds = 40:48 = 5:6

Hence, option B is correct

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

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

Hence, option C is correct.



3.

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

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

Hence, option A is correct

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

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

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 correct

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

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

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

ΔIncrease in time = $1.95 - 1.875 = 0.075$ h = 4.5 min

Hence, option C is correct

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.



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