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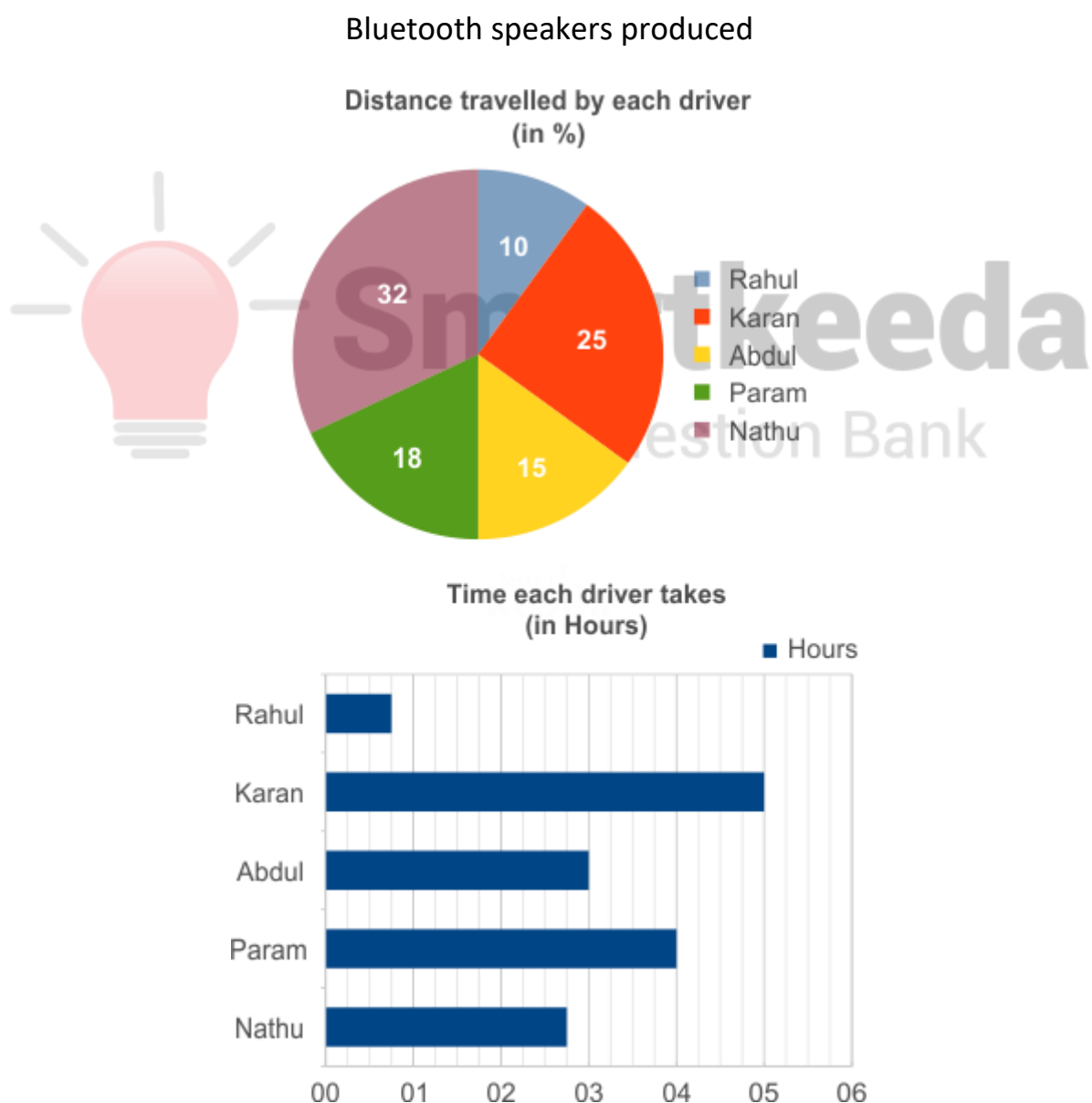
## DI Mixed Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Grade B and RBI Assistant Exams.

### DI Mixed Chart No. 90

**Directions:** Study the following pie chart and bar chart carefully to answer the questions given beside.

The following pie chart shows information about distance travelled by five drivers who work for a parcel delivery company. They used their own car for the delivery.

Time spent by each driver when they were driving has been given in bar graph below.



1. **Average time Rahul and Karan together took was how many minutes less than the average time that Abdul, Param and Nathu took?**  
 A. 0.375                      B. 22.5                      C. 25                      D. 27.5                      E. None of these
2. **Find the ratio of distance travelled by Karan and Abdul together to the distance travelled by Param and Nathu together.**  
 A. 2 : 3                      B. Information is insufficient                      C. 3 : 2                      D. 4 : 5                      E. None of these
3. **Of all the five drivers, which one had the fastest speed and which one had the slowest speed? Choose the correct option. First name is for the fastest and the second name is for the slowest.**  
 A. Rahul, Abdul                      B. Rahul, Param                      C. Nathu, Karan                      D. Information is insufficient.  
 E. None of these
4. **If Abdul drove the car at a constant speed of 40 kmph, then Speed of Karan was how much kmph more/less than the speed of Param?**  
 A. 6 kmph less                      B. 6 kmph more                      C. 8 kmph less                      D. 8 kmph more                      E. None of these
5. **If Nathu travelled 112 km more distance than Param, then what would be the average speed of all the cars together in the day?**  
 A. 45.5 kmph                      B. 50 kmph                      C. 51.6 kmph                      D. 48 kmph                      E. 55 kmph
6. **Karan travelled for 2 hours with speed 30 kmph and rest time with 80 kmph. With what speed Rahul travelled?**  
 A. 100 kmph                      B. 120 kmph                      C. 80 kmph                      D. 160 kmph                      E. None of these

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
B	D	B	E	C	D



## Explanation :

1. We read from the bar graph the time each person took as follows:

Rahul = 0.75h, Karan = 5h, Abdul = 3h, Param = 4h, Nathu = 2.75h

Average time Rahul and Karan took =  $(5 + 0.75) / 2 = 2.875$  h

Average time Abdul, Param and Nathu took =  $(3 + 4 + 2.75) / 3 = 3.25$  h

Difference =  $3.25 - 2.875 = 0.375$ h

In minutes =  $0.375 \times 60 = 22.5$  minutes.

Hence, option B is correct.

2. Let together they covered 100y km distance.

Then, distance covered by them would be as follows:

Karan = 25% of 100y = 25y km

Abdul = 15% of 100y = 15y km

Total = 25y + 15y = 40y km

Param = 18% of y = 18y km

Nathu = 32% of y = 32y km

Total = 18y + 32y = 50y km

Ratio = 40y:50y = 4:5

### Alternatively :

The pie chart shows distribution of distance travelled by each in percentage, which are directly proportional to the distance travelled by each of them. Since we have to the ratio, we can directly find using ratio as distance travelled:

$(25\% + 15\%) : (18\% + 32\%)$

4 : 5

Hence, option D is correct.



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**3.** Let together they covered  $100y$  km distance.

Then, distance covered by them would be as follows:

Rahul = 10% of  $100y = 10y$  km

Time Rahul took = 0.75 h

Speed of Rahul =  $10y / 0.75h = 40y / 3 = 13.33y$  kmph

Karan = 25% of  $100y = 25y$  km

Time Karan took = 5h

Speed of Karan =  $25y / 5h = 5y$  kmph

Similarly we can find speed of others

Abdul = 15% of  $100y = 15y$  km

Speed =  $15y / 3h = 5y$  kmph

Param = 18% of  $100y = 18y$  km

Speed =  $18y / 4 = 4.5y$  kmph

Nathu = 32% of  $100y = 32y$  km

Speed =  $32y / 2.75h = 11.6y$  kmph

Fastest =  $13.33y$  kmph = Rahul

Slowest =  $4.5y$  kmph = Param

Hence, option B is correct.

**4.** Abdul's speed x time he took = distance he covered

$40 \text{ kmph} \times 3h = 120 \text{ km}$

In pie chart, Abdul's part is 15%, so

15% -----> 120 km

100% ----->  $120 \times 100 / 15 = 800 \text{ km}$

Distance covered by Karan = 25% of 800 km = 200 km

Speed of Karan =  $200 / 5 = 40 \text{ kmph}$

Distance covered by Param = 18% of 800 km = 144km

Speed of Param =  $144 / 4 = 36 \text{ kmph}$

Speed of Karan is 4 kmph more than Param.

Hence, option E is correct.

5. Difference in percent the distance travelled by Nathu and Param = 14%

14% -----> 112 km

100% ----->  $112 \times 100 / 14 = 800$  km

Thus, total distance all the cars covered in a day was 800 km.

Total time they took =  $(0.75 + 5 + 3 + 4 + 2.75)$  h = 15.5 h

Average speed =  $800 / 15.5 = 51.6$  kmph

Hence, option C is correct.

6. Let Karan had travelled y km distance.

For 2 hours he travelled at 30 kmph, thus

Distance =  $2 \times 30 = 60$  km

For rest time he travelled at 80 kmph, thus

$5 - 2 = 3$  hours he travelled at 80 kmph

Distance =  $3 \times 80 = 240$  km

Total distance = 300 km

Karan's distance part in the pie chart is 25%,

25% -----> 300 km

100% ----->  $300 \times 100 / 25 = 1200$  km

Rahul would have travelled = 10% of 1200 km = 120 km

Time Rahul had taken = 0.75 h

Speed of Rahul =  $120 / 0.75 = 160$  kmph

Hence, option D is correct.





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