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The Question Bank

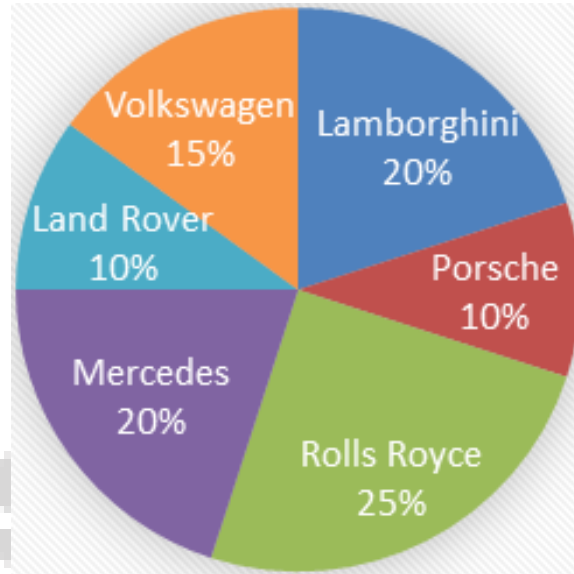
# Date Interpretation Pie Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, RBI Assistant, LIC Assistant and IBPS RRB Exams.

## DI Pie Chart Quiz 52

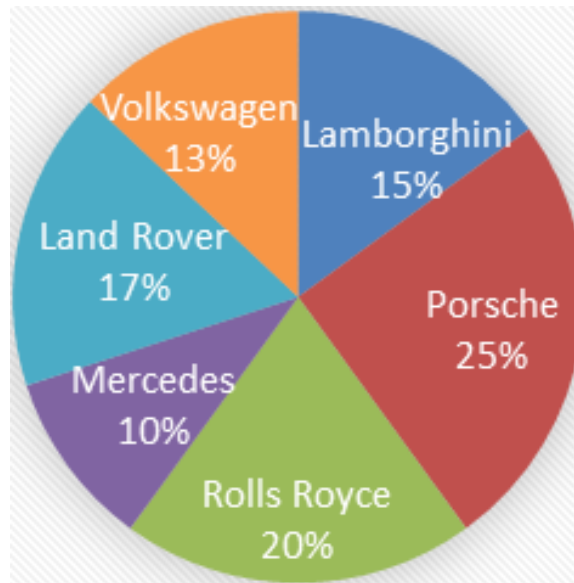
**Direction :** Study the following pie chart carefully and answer the questions given beside.

The following pie charts show the percentage of distance (in km) travelled by different cars and percentage of time (in hours) taken by different cars: -

Distance travelled



Time taken



## Questions :

1. If the difference between the distance travelled by Rolls Royce and Volkswagen is 160km while the speed of Rolls Royce is 80 km/hr, then find the speed of Mercedes?
- A. 128 km/hr      B. 148 km/hr      C. 228 km/hr      D. 328 km/hr      E. 148 km/hr
2. If the total distance travelled by all the cars is 1800 km and the time taken by Volkswagen is 2 hours less than the time taken by Land Rover, then find the percentage by which the speed of Mercedes is more/less than the speed of Rolls Royce?
- A. 60% less      B. 80% more      C. 80% less      D. 60% more      E. 70% less
3. If the speed of Lamborghini is 80 km/hr and the total distance travelled by all the cars is 1600 km, then find the speed of Rolls Royce?
- A. 75 km/hr      B. 55 km/hr      C. 65 km/hr      D. 45 km/hr      E. None of these
4. If the total distance travelled by all the cars is 2000 km while Porsche travelled  $\frac{3}{5}$  of the distance at a speed of 60 km/hr and the remaining at a speed of 20 km/hr then find the total time taken by Porsche?
- A. 8 hours      B. 7 hours      C. 6 hours      D. 5 hours      E. 4 hours
5. If the total time taken by all the cars is 40 hours and the difference between the speed of Lamborghini and Rolls Royce is 5 km/hr, then find the distance travelled by Volkswagen?
- A. 260 km      B. 390 km      C. 460 km      D. 340 km      E. 360 km

### Correct Answers:

1	2	3	4	5
A	D	A	C	E

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## Answers :

1. Difference between distance travelled by Rolls Royce and Volkswagen in percentage =  $(25 - 15)\% = 10\%$

$$\text{Distance travelled by Rolls Royce} = \frac{160}{10} \times 25 = 400 \text{ km}$$

$$\text{Time taken by Rolls Royce} = \frac{400}{80} = 5 \text{ hour}$$

$$\text{Time taken by Mercedes} = \frac{5}{20} \times 10 = 2.5 \text{ hours}$$

$$\text{Distance travelled by Mercedes} = \frac{160}{10} \times 20 = 320 \text{ km}$$

$$\therefore \text{Speed of Mercedes} = \frac{320}{2.5} = 128 \text{ km/hr}$$

Hence, option A is correct.

2.

$$\text{Distance travelled by Mercedes} = \frac{20}{100} \times 1800 = 360 \text{ km}$$

$$\text{Total time taken by all the cars} = \frac{2}{4} \times 100 = 50 \text{ hours}$$

(Difference between taken by Volkswagen and Land Rover is given)

$$\text{Time Taken by Mercedes} = \frac{10}{100} \times 50 = 5 \text{ hours}$$

$$\text{Speed of Mercedes} = \frac{360}{5} = 72 \text{ km/hr}$$

$$\text{Distance travelled by Rolls Royce} = \frac{25}{100} \times 1800 = 450 \text{ km}$$

$$\text{Time taken by Rolls Royce} = \frac{20}{100} \times 50 = 10 \text{ hours}$$

$$\text{Speed of Land Rover} = \frac{450}{10} = 45 \text{ km/hr}$$

$$\therefore \text{Reqd. \%} = \frac{72 - 45}{45} \times 100 = 60\%$$

Hence, option D is correct.

3.

$$\text{Distance travelled by Lamborghini} = \frac{20}{100} \times 1600 = 320 \text{ km}$$

$$\text{Time taken by Lamborghini} = \frac{320}{80} = 4 \text{ hours}$$

Distance travelled by Rolls Royce

$$= \frac{25}{100} \times 1600 = 400 \text{ km}$$

$$\text{Time taken by Rolls Royce} = \frac{4}{15} \times 20 = \frac{80}{15} \text{ hours}$$

$$\therefore \text{Speed of Rolls Royce} = \frac{400}{80/15} = 75 \text{ km/hr}$$

Hence, option A is correct.

4.

$$\text{Distance travelled by Porsche} = \frac{10}{100} \times 2000 = 200 \text{ km}$$

$$\text{Distance travelled at 60 km/hr} = \frac{3}{5} \times 200 = 120 \text{ km}$$

$$\text{Time taken} = \frac{120}{60} = 2 \text{ hours}$$

$$\text{Distance travelled at 40 km/hr} = (200 - 120) \text{ km} = 80 \text{ km}$$

$$\text{Time taken} = \frac{80}{20} = 4 \text{ hours}$$

$$\therefore \text{Total time taken by Porsche} = (2 + 4) = 6 \text{ hours.}$$

Hence, option C is correct.

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5. Let the distance travelled by all the cars = x km

$$\text{Distance travelled by Rolls Royce} = \frac{25}{100} \times x = \frac{x}{4}$$

$$\text{Time taken by Rolls Royce} = \frac{20}{100} \times 40 = 8 \text{ hours}$$

$$\text{Speed of Rolls Royce} = \frac{(x/4)}{8} = \frac{x}{32}$$

$$\text{Distance travelled by Lamborghini} = \frac{20}{100} \times x = \frac{x}{5}$$

$$\text{Time taken by Lamborghini} = \frac{15}{100} \times 40 = 6 \text{ hours}$$

$$\text{Speed of Lamborghini} = \frac{(x/5)}{6} = \frac{x}{30}$$

Difference between speed of Lamborghini and Rolls Royce = 5

$$\Rightarrow \frac{x}{30} - \frac{x}{32} = 5$$

$$\Rightarrow \frac{16x - 15x}{480} = 5$$

$$\Rightarrow x = 2400 \text{ km}$$

∴ Distance travelled by Volkswagen

$$= \frac{15}{100} \times 2400 = 360 \text{ km}$$

Hence, option E is correct.

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