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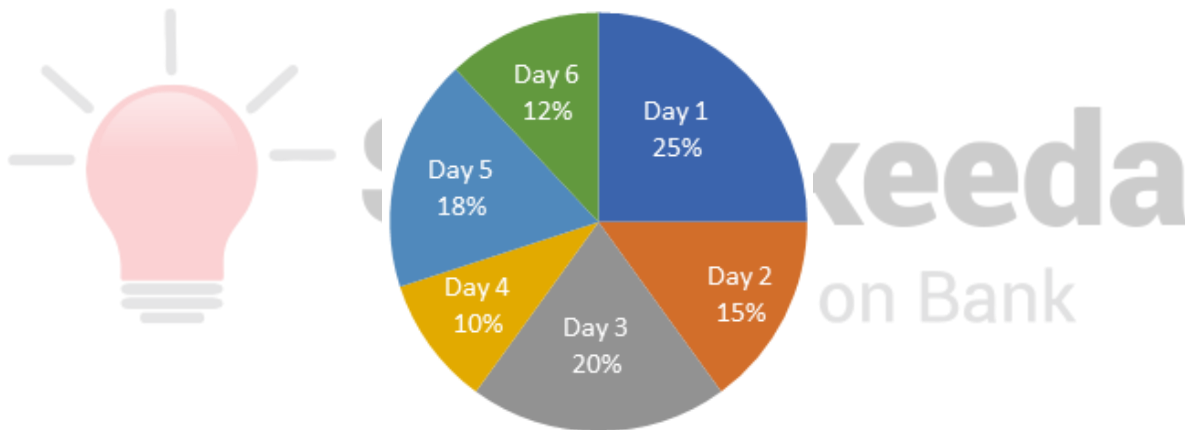
Data Interpretation Questions for IBPS PO pre, SBI PO pre, IBPS Clerk, SBI Clerk exams.

DI MIXED CHART NO 44

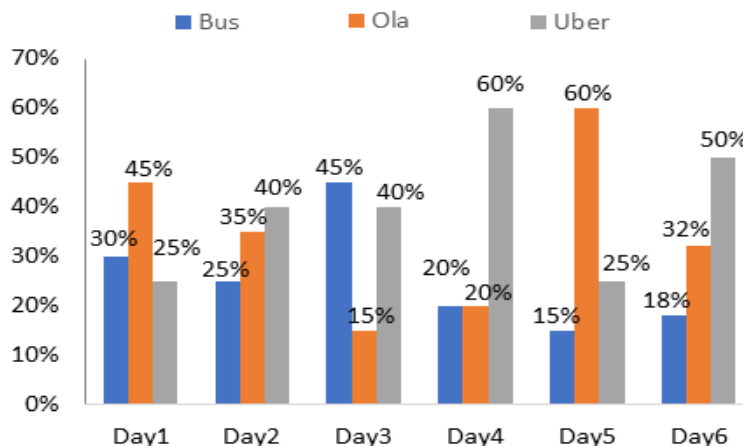
Directions: Study the following pie chart and bar chart carefully and answer the questions given beside.

A person covers a total distance of 3000 km in 6 days, by bus, by Ola, and by Uber. Study the pie chart and bar graph to answer these questions.

The percentage of total distance travelled in 6 different days



The percentage of distance covered by each mode on each day



1. What is the total distance covered by Bus?

- A. 814.9 km B. 812.3 km C. 813.3 km
D. 821.23 km E. None of these

2. If everywhere Ola maintains an average speed of 40 km per hour then what is the total time (In hour) in six days spent on Ola? (approximately)

- A. 25 hours B. 26 hours C. 27 hours
D. 28 hours E. 28.5 hours

3. The distance travelled by Ola is approximately how much percentage of the distance travelled by Uber? (Round off two decimal)

- A. 97.21% B. 102.32% C. 98.34%
D. 99.91% E. 106.29%

4. Find the respective ratio of the distance travelled by Bus, Ola, and Uber.

- A. 2711 : 3614 : 3675
B. 8133 : 10837 : 11020
C. 2713 : 3612 : 3675
D. 2717 : 3614 : 3681
E. None of these

5. Suppose, Instead of Bus, the person uses Ola and the speed of Ola is 25% more than the speed of bus then approximately how

many hours the person would save? (The average speed of bus is 30 km per hour)

A. 6.8 hours

B. 7.2 hours

C. 4.6 hours

D. 5.4 hours

E. 4.8 hours

6. Suppose, on the first day, the person travelled for 18 hours and each day he decreases the traveling time by 2 hours then what can be the average speed of the person during the entire period?

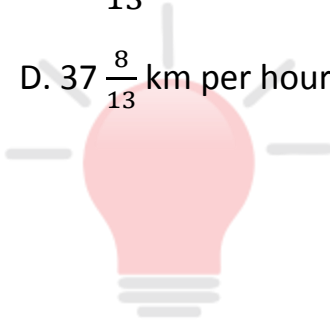
A. $38\frac{6}{13}$ km per hour

B. $37\frac{9}{13}$ km per hour

C. $36\frac{2}{13}$ km per hour

D. $37\frac{8}{13}$ km per hour

E. None of these



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Correct answer:

1	2	3	4	5	6
C	C	C	A	D	A

Explanations:

1.

Day	Total distance	By bus
Day1	25% of 3000 = 750 km	30% of 750 = 225 km
Day2	15% of 3000 = 450 km	25% of 450 = 112.5 km
Day3	20% of 3000 = 600 km	45% of 600 = 270 km
Day4	10% of 3000 = 300 km	20% of 300 = 60 km
Day5	18% of 3000 = 540 km	15% of 540 = 81 km
Day6	12% of 3000 = 360 km	18% of 360 = 64.8 km
		Total = 813.3 km

Hence, option C is correct.

2.

The total distance travelled by Ola = 1084.2 km

Speed = 40 km per hr

$$\text{Time} = \frac{1084.2}{40} = 27.105 \text{ hours} = \text{approximately } 27 \text{ hours}$$

Day	Total distance	By Ola
Day1	25% of 3000 = 750 km	45% of 750 = 337.5 km
Day2	15% of 3000 = 450 km	35% of 450 = 157.5 km
Day3	20% of 3000 = 600 km	15% of 600 = 90 km
Day4	10% of 3000 = 300 km	20% of 300 = 60 km
Day5	18% of 3000 = 540 km	60% of 540 = 324 km
Day6	12% of 3000 = 360 km	32% of 360 = 115.2 km
		Total = 1084.2 km

Hence, option C is correct.

3.

The total distance travelled by Ola = 1084.2 km

The total distance travelled by Uber = 3000 – 813.3 – 1084.2 = 1102.5 KM

$$\text{The reqd. \%} = \frac{1084.2 \times 100}{1102.5} = 98.34\%$$

Hence, option C is correct.

4.

The distance travelled by bus = 813.3 km

The distance travelled by Ola = 1084.2 km

The distance travelled by Uber = 1102.5 km

The required Ratio = 8133 : 10842 : 11025 = 2711 : 3614 : 3675

Hence, option A is correct.

5.

The average speed of bus is 30 km per hour then the average speed of Ola

$$= \frac{30 \times 125}{100} = 37.5 \text{ km}$$

The total distance travelled by bus = 813.3 km

$$\text{The reqd. time} = \frac{813.3}{30} - \frac{813.3}{37.5}$$

$$= 813.3 \times \frac{7.5}{30 \times 37.5} = 5.422 \text{ hours} = 5.4 \text{ hours approximately}$$

Hence, option D is correct.

6.

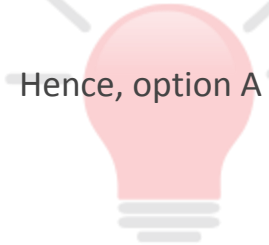
Total distance = 3000 km

Total time = 18 + 16 + 14 + 12 + 10 + 8 = 78 hours

The average speed = $\frac{\text{total distance}}{\text{total time}}$

$$= \frac{3000}{78} = \frac{500}{13} = 38 \frac{6}{13} \text{ km per hour}$$

Hence, option A is correct.



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