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The Question Bank

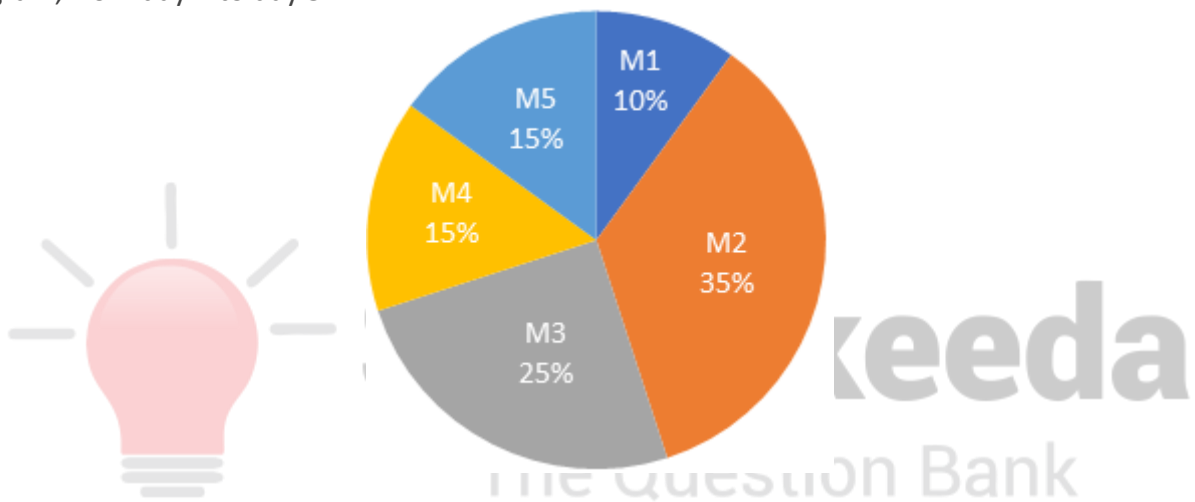
# DI MixedChart Questions for SBIPOMains, IBPS PO Mains and RBI Grade B Exams.

## DI Mixed Chart No.78

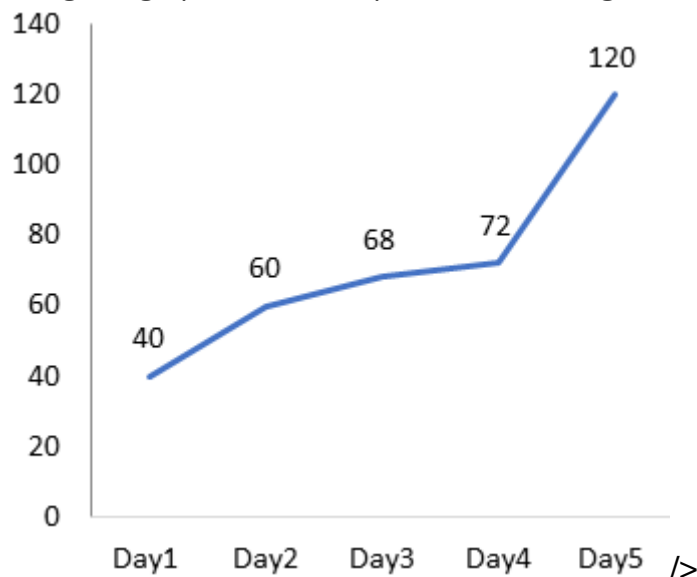
Directions : Study the following table and bar chart carefully and answer the questions given beside.

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

A person travels daily for eight hours for 5 days to cover a certain distance. The following pie chart shows the percentage of total distance travelled by him in 5 different modes on day1 (M1, M2, M3, M4, and M5) and the percentage of distance travelled by him with the same modes remained the same as shown in the pie diagram, from day 1 to day 5.



The following line graph shows the speed of M5 during the five days.



Further, the below data table gives the information about the percentage of total time taken on each day to travel by Mode 5 (M5).

Day	Day1	Day2	Day3	Day4	Day5
Time	6.25%	12.5%	3.125%	8.33%	16.67%

1. What is the sum of the total distance travelled by the person during the give five days?
 

A.  $2033\frac{1}{3}$  km      B.  $2063\frac{1}{3}$  km      C.  $2133\frac{1}{3}$  km      D.  $2163\frac{1}{3}$  km      E. None of these
2. What is difference between the total distance travelled by Mode2 (M2) in the five days and the total distance travelled by Mode 3 (M3) in the five days?
 

A.  $213\frac{1}{3}$  km      B.  $223\frac{1}{3}$  km      C.  $303\frac{1}{3}$  km      D.  $323\frac{1}{3}$  km      E. None of these
3. The average speed of the person during the first two days is approximately what percent of the average speed of the person during the last three days?
 

A. 58.33%      B. 53.33%      C. 48.67%      D. 51.33%      E. Can't be determined
4. Suppose, the person spends 25% of the total time on each day to travel by M1 then the average speed of M1 during the five days is approximately what percent less than the average speed of M5 during the five days?
 

A. 45%      B. 50%      C. 65%      D. 75%      E. None of these
5. What would have been the difference between the average speed of M3 during the five days and the average speed of M4 during the five days?
 

A.  $21\frac{1}{3}$  km      B.  $23\frac{1}{3}$  km      C.  $20\frac{1}{3}$  km      D.  $60\frac{4}{15}$  km      E. None of these

**Correct Answers:**

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



## Explanations :

1.

Day	Day1	Day2	Day3	Day4	Day5
Time	6.25% of 8 hrs = 30 minutes	12.5% of 8 hours = 1 hour	3.125% of 8 hours = 15 minutes	8.33% of 8 hours = $\frac{1}{12}$ of 8 hours = $\frac{2}{3}$ hours = 40 minutes	16.67% of 8 hours = $\frac{1}{6}$ of 8 hours = $\frac{4}{3}$ hours = 1 hour 20 minutes

Let from day1 to day 5 he travels a, b, c, d, and e km respectively

From the line graph, Distance = speed  $\times$  time 15% of a =  $40 \times \frac{1}{2} = 20$  km

$$A = \frac{20 \times 100}{15} \text{ km}$$

Day2,

$$15\% \text{ of } b = 60 \times 1 = 60 \text{ km}$$

$$B = \frac{60 \times 100}{15} \text{ km}$$

Day3,

$$15\% \text{ of } c = \frac{1}{4} \times 68$$

$$C = \frac{1700}{15} \text{ km}$$

Day4,

$$15\% \text{ of } d = \frac{2}{3} \times 72$$

$$D = \frac{4800}{15} \text{ km}$$

Day5,

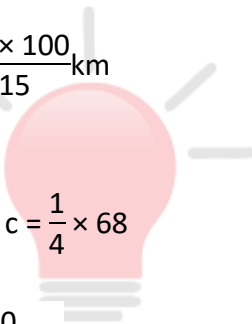
$$15\% \text{ of } e = \frac{4}{3} \times 120$$

$$E = \frac{16000}{15} \text{ km}$$

$$\text{Sum} = \frac{2000}{15} + \frac{6000}{15} + \frac{1700}{15} + \frac{4800}{15} + \frac{16000}{15}$$

$$= \frac{30500}{15} = \frac{6100}{3} \text{ km} = 2033 \frac{1}{3} \text{ km}$$

Hence, option A is correct



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2. The total distance travelled by M3 in the five days

$$= 25\% \text{ of } \frac{2000}{15} + 25\% \text{ of } \frac{6000}{15} + 25\% \text{ of } \frac{1700}{15} + 25\% \text{ of } \frac{4800}{15} + 25\% \text{ of } \frac{16000}{15}$$
$$= \frac{6100}{12} = \frac{1525}{3} \text{ km}$$

The total distance travelled by M2 in the five days

$$= 35\% \text{ of } \frac{2000}{15} + 35\% \text{ of } \frac{6000}{15} + 35\% \text{ of } \frac{1700}{15} + 35\% \text{ of } \frac{4800}{15} + 35\% \text{ of } \frac{16000}{15}$$
$$= \frac{2135}{12} \text{ km}$$

$$\text{The reqd. difference} = \frac{2135}{3} - \frac{1525}{3} = \frac{610}{3} \text{ km}$$

Hence, option E is correct.

3. The total distance travelled by the person in the first two days

$$= \frac{2000}{15} + \frac{6000}{15} = \frac{400}{3} + \frac{1200}{3} = \frac{1600}{3} \text{ km}$$

Total time =  $8 \times 2 = 16$  hours

$$\text{Average speed} = \frac{1600}{3 \times 16} = \frac{100}{3} \text{ km per hour}$$

The total distance travelled by the person in the first two days

$$= \frac{1700}{15} + \frac{4800}{15} + \frac{16000}{15} = \frac{22500}{15} = \frac{4500}{3} = 1500 \text{ km}$$

$$\text{Average speed} = \frac{1500}{8 \times 3} = \frac{250}{4} = \frac{125}{2} \text{ km per hour}$$

$$\text{The reqd. \%} = \frac{\frac{100}{3}}{\frac{125}{2}} \times 100 = \frac{160}{3} = 53.33\%$$

Hence, option B is correct.

4. The total time travelled by man in 5 days =  $8 \times 5 = 40$  hours

The total time spent to travel by M1 = 25% of 40 = 10 hours

The total distance travelled by M1 in 5 days

$$= 10\% \text{ of } \frac{6100}{3} = \frac{610}{3} \text{ km}$$

The average speed of M1 during the five days

$$= \frac{610}{3 \times 10} = \frac{61}{3} \text{ km per hour}$$

The total distance travelled by M5 in 5 days

$$= 15\% \text{ of } \frac{6100}{3} = 305 \text{ km}$$

The total time = 30 mins + 1 hr + 15 min + 40 mins + 1 hr 20 mins = 3 hrs 45 mins =  $15/4$  hr

Day	Day1	Day2	Day3	Day4	Day5
Time	6.25% of 8 hrs = 30 minutes	12.5% of 8 hours = 1 hour	3.125% of 8 hours = 15 minutes	8.33% of 8 hours = 1/12 of 8 hours = 2/3 hours = 40 minutes	16.67% of 8 hours = 1/6 of 8 hours = 4/3 hours = 1 hour 20 minutes

$$\text{The average speed} = \frac{305 \times 4}{15} = \frac{244}{3} \text{ km per hour}$$

$$\text{The reqd. \%} = \frac{\left(\frac{244}{3} - \frac{61}{3}\right)}{244} \times 100 = 183 \times \frac{100}{244} = 75\%$$

Hence, option D is correct.

5. Since we could not find the time spend by the person to travel by mode3 or mode 4 therefore, it is not possible to get the answer.

Hence, option E is correct.



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