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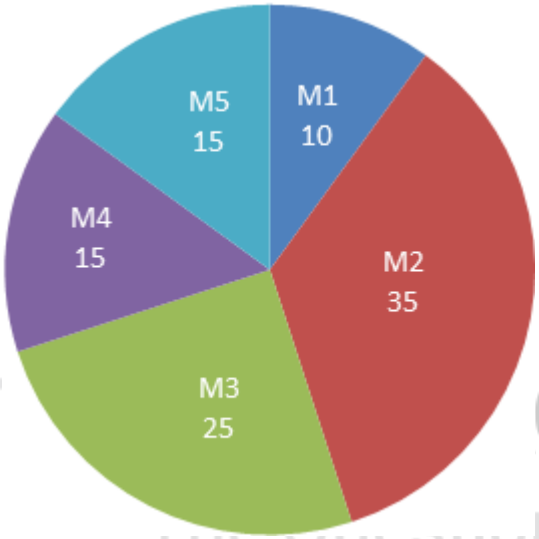
The Question Bank

DI Mixed Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Mixed Chart No. 75

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

A person travels daily for 8 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 each day of the journey.



The table shows speed of M5 each day and the time it took to travel using M5 out of total travelling time that day.

Days	Speed of M5 (kmph)	Time taken by M5 each day as % of total travel time
1	40	6.25
2	60	12.5
3	68	3.125
4	72	8.33
5	120	16.67

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

A. $1033\frac{1}{3}$ km B. $2033\frac{2}{3}$ km C. $2033\frac{1}{3}$ km D. $1266\frac{1}{3}$ km E. $1133\frac{3}{4}$ km

2. What is difference between the total distance travelled by Mode 2 (M2) in the five days and the total distance travelled by Mode 3 (M3) in the five days?

A. $203\frac{1}{3}$ km B. $103\frac{1}{3}$ km C. $203\frac{1}{3}$ km D. $103\frac{2}{3}$ km E. $610\frac{1}{3}$ km

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. 13.33% B. 33.33% C. 56.67% D. 53.33% E. 43.33%

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. 60% B. 75% C. 80% D. 120% E. 100%

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. 42 kmph B. $25\frac{1}{3}$ kmph C. 30 kmph D. 42 kmph E. None of these

Correct Answers:

1	2	3	4	5
C	A	D	B	E

Common explanations :

Days	Time taken by M5 each day as % of total travel time	8 hour travelling each day
1	6.25	6.25% of 8 = 30 min
2	12.5	1 hour
3	3.125	15 min
4	8.33	40 min
5	16.67	1 h 20 min

Let from day 1 to day 5 he travels A, B, C, D, and E km respectively,

From the table given in the question and above,

Distance = speed × time = $40 \times \frac{1}{2} = 20$ km

From pie chart, for M5, this is 15% of total distance, so

Total distance, A = $\frac{100 \times 20}{15}$ km

Similarly, we calculate for each day

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

C = $\frac{100 \times 17}{15}$ km

D = $\frac{100 \times 48}{15}$ km

E = $\frac{100 \times 160}{15}$ km

Answers :

1. From common explanation we have

Total distance = A + B + C + D + E

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

Hence, option C is correct.

2. From common explanation, we have

Distance travelled by M3 in five days

25% of A + 25% of B + 25% of C + 25% of D + 25% of E

25% of (A + B + C + D + E)= 25% of $2033\frac{1}{3}$ km

Similarly, distance travelled by M2 in five days

= 35% of $2033\frac{1}{3}$ km

Difference = 10% of $2033\frac{1}{3}$ km

$= \frac{610}{3}$ km $= 203\frac{1}{3}$ km

Hence, option A is correct.

3. Total distance in first two days from common explanation

$= A + B = \frac{1600}{3}$ km

Total time = 2 × 8 = 16 hours

Average speed $= \frac{(1600/3)}{16} = \frac{100}{3}$ kmph

Similarly, average speed for last three days $= \frac{125}{2}$ kmph

Percentage $= \frac{(100/3)}{(125/2)} \times 100 = 53.33\%$

Hence, option D is correct.

4. From common explanation, we have

Total time to travel by M1 in five days = 25% of (5 × 8) = 10 hours

Total distance travelled by M1 in five days = 10% of (A + B + C + D + E)

$= 10\% \text{ of } 2033\frac{1}{3} = \frac{610}{3} \text{ km}$

Average speed of M1 during the five days

$= \frac{(610/3)}{10} = \frac{61}{3} \text{ kmph}$

Now, distance travelled using M5 in five days = 15% of of (A + B + C + D + E)

$= 15\% \text{ of } 2033\frac{1}{3} = 305 \text{ km}$

Time of M5 (from table in common explanation)

$= \frac{1}{2} \text{ hr} + 1 \text{ hr} + \frac{1}{4} \text{ hr} + \frac{2}{3} \text{ hr} + \frac{4}{3} \text{ hr} = \frac{15}{4} \text{ hr}$

$\text{Average speed} = \frac{305}{15/4} = \frac{244}{3} \text{ kmph}$

$\text{Percentage difference} = \frac{(244/3 - 61/3)}{244/3} \times 100 = 75\%$

Hence, option B is correct.

5. From common explanation, we have

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.