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Date Interpretation Mixed Chart Questions Quiz for IBPS PO Pre, SBI PO Pre, IBPS SO Pre, IBPS Clerk Mains, SBI Clerk Mains and RRB Scale I Pre Exams.

Data Interpretation Mixed Chart Quiz 23

Direction: Study the following bar chart and table chart carefully and answer the questions based on it.

The given bar graph shows the speed (in km/h) of 2 persons while travelling by different vehicles.
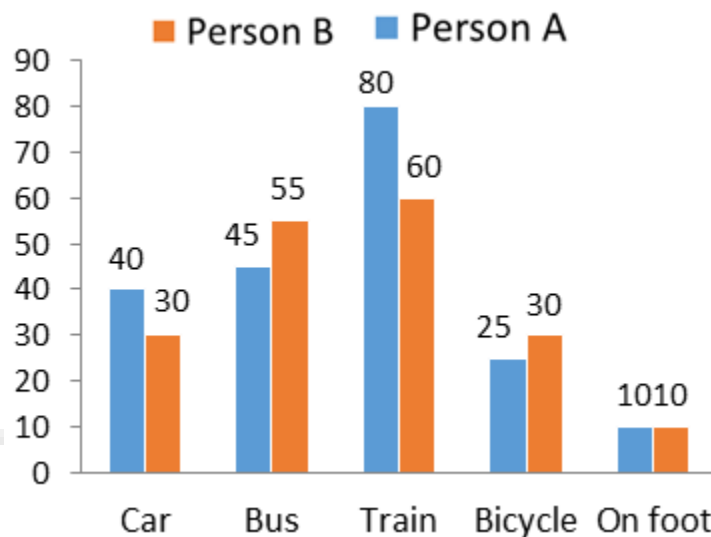
The following table shows the percentage of distance travelled by both the persons A and B by different vehicles.

Vehicles	Person A	Person B
Car	24%	25%
Bus	18%	21%
Train	27%	23%
Bicycle	20%	16%
On foot	11%	15%

1. If person A travels 432 km by train, then what is the total time taken by person A to travel by bus and bicycle together?

A. 20.4 hours   B. 19.2 hours   C. 18 hours   D. 18.5 hours   E. None of these

2. If person B completes his journey by bus in 4 hours, then what is the total distance travelled by person B in his whole journey (approx)?

A. 1006 km   B. 1012 km   C. 1024 km   D. 1048 km   E. None of these

3. If person A travelled 242 km on foot and person B travelled 625 km by car. Then what will be the difference between time taken by them to complete their journey by bus?

A. 2.7 hours   B. 1.7 hours   C. 0.7 hours   D. 3.7 hours   E. None of these

4. What is the total time taken by person A (approximately) during his whole journey if he completes his journey on foot in 5.5 hours?

A. 18 hours   B. 16.2 hours   C. 20.5 hours   D. 12 hours   E. None of these

5. If person B completed his journey by train in 5.75 hours, then what is average of the distance travelled by him by car, by bus and by bicycle?

A. 310 km   B. 278 km   C. 340 km   D. 370 km   E. None of these
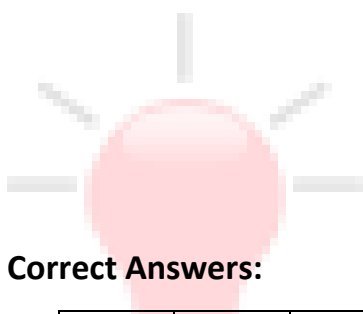
Correct Answers:

1	2	3	4	5
B	D	C	B	A

Explanations:

1.　Let total distance travelled by person A = X km

⇒ Given, $X \times \dfrac{27}{100} = 432$

⇒ X = 1600 km

Total time taken by person A to travel by bus and by bicycle:

⇒ $\dfrac{1600 \times 18}{45 \times 100} + \dfrac{1600 \times 20}{25 \times 100}$

⇒ 6.4 + 12.8
⇒ 19.2 hours
Hence, option (B) is correct.

2.   Let the total distance travelled by person B = Y km

The distance travelled by bus by person B = 55 × 4 = 220 km

Then, $Y \times \dfrac{21}{100} = 220$

$\Rightarrow Y = \dfrac{220 \times 100}{21}$

$\Rightarrow Y = 1048$ km (approx)

Hence, option (D) is correct.

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3.   Let total distance travelled by person A = X km
And total distance travelled by person B = Y km
According to question –

$\Rightarrow X \times \dfrac{11}{100} = 242$

$\Rightarrow X = 2200$ km
And,

$\Rightarrow Y \times \dfrac{25}{100} = 625$

$\Rightarrow Y = 2500$ km

Distance travelled by bus by person A

$= 2200 \times \dfrac{18}{100} = 396$ km

Time taken by person A to complete his journey by bus

$= \dfrac{396}{45} = 8.8$ hours

Distance travelled by bus by person B

$= 2500 \times \dfrac{21}{100} = 525$ km

Time taken by person B to complete his journey by bus

$= \dfrac{525}{55} = 9.545454 = 9.5$ hours (approx)

Required difference = 9.5 – 8.8 = 0.7 hours
Hence, option (C) is correct.

4.   Let total distance travelled by person A during his whole journey = X km

Now distance travelled by person A on foot = 10 × 5.5 = 55 km

From question –

$$\Rightarrow X \times \frac{11}{100} = 55$$

$$\Rightarrow X = 500 \text{ km}$$

Distance travelled by person A by car = $500 \times \frac{24}{100}$ = 120 km

Time taken by person A by travelling car = $\frac{120}{40}$ = 3 hours

Distance travelled by person A by bus = $500 \times \frac{18}{100}$ = 90 km

Time taken by person A by travelling bus = $\frac{90}{45}$ = 2 hours

Distance travelled by person A by train = $500 \times \frac{27}{100}$ = 135 km

Time taken by person A by travelling train = $\frac{135}{80}$ = 1.6875 hours

Distance travelled by person A by bicycle = $500 \times \frac{20}{100}$ = 100 km

Time taken by person A by travelling bicycle = $\frac{100}{25}$ = 4 hours

Required time = 5.5 + 3 + 2 + 1. 6875 + 4 = 16.1875 hours = 16.2 hours

Hence, option (B) is correct.

5.   Let total distance travelled by person B = Y km

Now, distance travelled by train by person B = 60 × 5.75 = 345 km

From question-

$$\Rightarrow Y \times \frac{23}{100} = 345$$

$$\Rightarrow Y = 1500 \text{ km}$$

Distance travelled by car by person B $= 1500 \times \frac{25}{100} = 375$ km

Distance travelled by bus by person B $= 1500 \times \frac{21}{100} = 315$ km

Distance travelled by bicycle by person B $= 1500 \times \frac{16}{100} = 240$ km

Required average $= \dfrac{375 + 315 + 240}{3} = 310$ km

Hence, option (A) is correct.
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