

REASONING**Questions 1 – 3: MATHEMATICAL VENN DIAGRAMS - I**

The following information is available about 40 students in a class. Out of these 40 students, 26 watch movies and 23 watch news.

- 1) How many students watch only movies?
a) 23 b) 17 c) 10 d) 25
- 2) How many students watch both?
a) 26 b) 20 c) 12 d) 09
- 3) How many students do not watch news?
a) 17 b) 14 c) 23 d) None of these

Questions 4 – 7:

In a train compartment 50 passengers have Trolley Bags and 70 passengers have Hand Bags. Among this total of 100 passengers 10 do not have any of these bags.

- 4) How many passengers have only one type of bag?
a) 40 b) 60 c) 20 d) 10
- 5) How many of them have at least one type of bag?
a) 30 b) 80 c) 90 d) None of these
- 6) How many of them do not have at least one of it?
a) 20 b) 90 c) 85 d) 70
- 7) How many of them have do not have Trolley Bag?
a) 50 b) 30 c) 60 d) None of these

Questions 8 – 13:

Survey among 260 professionals reveals that they own different types of cars. 80 own Diesel cars, 105 own Electric cars and 110 own Petrol cars. 40 own Petrol and Electric; 30 own Electric and Diesel; 25 own Petrol and Diesel; and 10 own all the three types of cars.

- 8) How many own Diesel cars alone?
a) 45 b) 25 c) 35 d) 55
- 9) How many own exactly two types of cars?
a) 65 b) 75 c) 80 d) 110
- 10) How many own none of the given three types of cars?
a) 30 b) 50 c) 10 d) None of these
- 11) How many professionals owns exactly one type of car?
a) 150 b) 210 c) 135 d) 60
- 12) How many owns Petrol but not Electric?
a) 110 b) 55 c) 105 d) 70
- 13) Find the number of professionals who owns at most two types of cars?
a) 250 b) 120 c) 75 d) None of these

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Answers:

- 1) b (17)
- 2) d (9)
- 3) a (17)
- 4) b (60)
- 5) c (90)
- 6) d (70)
- 7) a (50)
- 8) c (35)
- 9) a (65)
- 10) b (50)
- 11) c (135)
- 12) d (70)
- 13) a (250)