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Date Interpretation Info Chart Questions Quiz for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

DI Info Chart Quiz 9

Directions: Study the given information carefully to answer the questions.

Every year, a survey of 1000 people is conducted by the World Health Organization (WHO). WHO found that in the year 2005, 2006, 2007, 2008 and 2009 the percentage of people affected by malaria were 30%, 40%, 30%, 20% and 45% respectively. WHO also found that every year out of the affected people 60% were students, 10% were house-wives and 30% were drivers. The number of house-wives, students and drivers were in the ratio 20 : 11 : 9, every year.

1. In the year 2007, find the number of house-wives affected by malaria?

A. 60   B. 30   C. 50   D. 110   E. 150

2. In the year 2009, find the number of drivers who were not affected by malaria?

A. 110   B. 125   C. 415   D. 190   E. 90

3. What is the difference in the number of students affected and not affected by malaria in the year 2006?

A. 205   B. 35   C. 200   D. 240   E. 420

4. Find the ratio of the number of house-wives affected by malaria in the year 2005 to that affected by malaria in the year 2008.

A. 5 : 3   B. 9 : 4   C. 3 : 2   D. 2 : 1   E. 4 : 3

5. Which year had the maximum number of students not affected by malaria?

A. 2005   B. 2006   C. 2007   D. 2008   E. 2009

Correct Answers:

1	2	3	4	5
B	E	A	C	D

Answers :-

1. In the year 2007, 30% of the population was affected by malaria out of which 10% were house-wives.

∴ The number of house-wives affected by malaria in the year 2007 = 10% of 30% of 1000 = 0.1 × 0.3 × 1000 = 30

Hence, option B is correct.

2. The number of house-wives, students and drivers were in the ratio 20 : 11 : 9 in each year.

Let the common factor be x.

Also, every year 1000 people were surveyed.

∴ 20x + 11x + 9x = 1000

∴ x = 25

∴ The total number of house-wives, students and drivers was 500, 275 and 225 respectively.

Now, in the year 2009, 45% of the total population was affected by malaria.

45% of 1000 = 450

Out of the 450 affected people, 30% were drivers.

30% of 450 = 135

Hence, the numbers of drivers who were not affected by malaria in the year 2009 = 225 − 135 = 90

Hence, option E is correct.

3. Total population of students for each year = 275

In the year 2006, the numbers of students affected by malaria = 60% of 40% of 1000 = 0.6 × 0.4 × 1000 = 240 students

∴ The number of students not affected by malaria = 275 − 240 = 35

∴ Difference between the two = 240 − 35 = 205

Hence, option A is correct.

4.   The number of house-wives affected by malaria in the year 2005 = 10% of 30% of 1000 = 0.1 × 0.3 × 1000 = 30

The number of house-wives affected by malaria in the year 2008 = 10% of 20% of 1000 = 0.1 × 0.2 × 1000 = 20

The required ratio = 30 : 20 = 3 : 2

Hence, option C is correct.

5.   Total number of students = 275

The number of students affected by malaria in the year 2005 = 60% of 30% of 1000 = 180

∴ The number of students not affected by malaria = 275 − 180 = 95

The number of students affected by malaria in the year 2006 = 60% of 40% of 1000 = 240

∴ The number of students not affected by malaria = 275 − 240 = 35

The number of students affected by malaria in the year 2007 = 60% of 30% of 1000 = 180

∴ The number of students not affected by malaria = 275 − 180 = 95

The number of students affected by malaria in the year 2008 = 60% of 20% of 1000 = 120

∴ The number of students not affected by malaria = 275 − 120 = 155

The number of students affected by malaria in the year 2009 = 60% of 45% of 1000 = 270

∴ The number of students not affected by malaria = 275 − 270 = 5

Thus, 2008 had the maximum number of students not affected by malaria.

Hence, option D is correct.