

Reasoning and General Intelligence - TIME SEQUENCE, NUMBER & RANKING TEST

TIME SEQUENCE

To solve problems related to time sequence, let us gather 1st the following information's:

- 1 Minute = 60 seconds
- 1 Hour = 60 minutes
- 1 Day = 24 hours
- 1 Week = 7 days
- 1 Month = 4 weeks
- 1 Year = 12 months
- 1 Ordinary year = 365 days
- 1 Leap year = 366 days
- 1 Century = 100 years

Other facts to be remembered

- ❖ A day is the period of the earth's revolution on its axis.
- ❖ A 'Solar year' is the time taken the earth to travel round the sun. It is equal to 365 days, 5 hours, 48 minutes and $47\frac{1}{2}$ seconds nearly.
- ❖ A 'Lunar month' is the time taken the moon to travel round the earth. It is equal to nearly 28 days.

Leap Year

- ❖ If the number of a given year is divisible by 4, it is a leap year. Hence, the years like 1996, 2008, 2012 are leap years. But years like 1997, 1991, 2005, 2007 are not divisible by 4 and therefore, such years are not leap years.
- ❖ In a leap year, February has 29 days.
- ❖ A leap year has 52 weeks and 2 days.

EXAMPLE 1. Neena returned home after 3 days earlier than the time she had told her mother. Neena's sister Veena reached five days later than the day Neena was supposed to return. If Neena returned on Thursday, on what day did Veena return?

- (a) Friday
- (b) Saturday
- (c) Wednesday
- (d) Sunday

Sol. (a) Neena returned home on Thursday. Neena was supposed to return 3 days later, i.e., on Sunday.
Veena returned five days later from Sunday, i.e., on Friday.
∴ Option (a) is the correct option.

EXAMPLE 2. Vandana remembers that her father's birthday is between 13th and 16th of June. Whereas her brother remembers that their Father's birthday is between 14th and 18th of June. On which day is their Father's birthday?

- (a) 14th June
- (b) 16th June
- (c) 15th June
- (d) 18th June

Sol. (c) According to Vandana her father's birthday is on one of the days among 14th and 15th June. Vandana's brother, the father's birthday is one of the days among 15th 16th and 17th June. It is obvious that the father's birthday is on the day to both the above groups. The common day is 15th. Hence, the father's birthday falls on 15th June. 1 Option (c) is the correct option.

NUMBER TEST

In such test, generally you are given a long series of numbers the candidate is required to find out how many times a number satisfying the conditions specified in the question occurs.

EXAMPLE 3. How many 8s are there in the following number sequence which are immediately preceded by 5 but not immediately followed by 3?

38584583988588893

- (a) 1
- (b) 4

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(c) 3 (d) 2

Sol. (d) Let us see the following:

3 8 8 4 5 8 3 9 8 8 8 9 3

clearly, such sequence occurs two lines

∴ Option (d) is correct.

EXAMPLE 4. What will be last digit of the 3rd number from top when the numbers given below are arranged in descending order after reversing the position of the digits within each number?

517 325 639 841 792

(a) 2 (b) 5
(c) 7 (d) 3

Sol. (d) The given numbers are:

517 325 639 841 792

After reversing, the numbers become as follows: 715 523 936 148 297

When arranged in descending order the numbers become as follows:

936 715 523 297 148;

Now, the third number from top is 523. Hence, the last digit of 523 is 3.

∴ Option (d) is correct.

RANKING TEST

In such problems, the ranks of a person both from the top from the bottom are given and on the basis of this the total number of persons is asked. Sometimes question is twisted also and position of a particular person is asked.

EXAMPLE 5. Karishma ranks 10th from the top and 15th from the bottom in an examination. Find the total number of students in Karishma's class.

(a) 35 (b) 31
(c) 28 (d) 30

Sol. (d) As per the question; the class has
(i) 15 students higher than Karishma
(ii) 14 students lower than Karishma
(iii) Karishma

∴ Total number of students = 15 + 14 + 1 = 30
Hence, option (d) is correct.

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