

Infosys Placement Papers and Sample Papers Exam 15th May 2005
10 puzzles

1) Sandy's uncle died leaving 1000 rs behind to be distributed among his five nephews. The money is to be divided among the nephews according to their ages. A person gets 20 more than his immediate younger brother. Sandy being the youngest what was his share?

Ans. Rs 160.0

It was quite an easy one.

Let Sandy's share be x

$$x+x+20+x+40+x+60+x+80=1000$$

$$5x+200=1000$$

$$x=800/5$$

$$x=160$$

2) Rohit was descending from the elevator which was not working. When he had stepped down 7 steps his sir started from the bottom of the elevator and they passed each other and when Rohit had still 4 steps to go down, his sir reached at the top. Taking into consideration those 2 steps took same time as Rohit's one what were the total no of steps?

Ans 22 steps

3) A vendor who is an ex-mathematician has a number of apples and when he arranges them in rows of 3 he is left with one more, when he arranges them in rows of 5 again he is left with 1 more, Same happens with when he tries to arrange them in rows of 7 and 9 that is 1 apple is left extra. But when he arranges them in a row of 11 he is left with none. Can u tell me how many apples were there?

Ans 946

The no is a multiple of 3,5,7,9 + a remainder of 1. So

$$3* 5* 7* 9= 945 + 1 =946$$

$$946 /11= 86$$

So it is divisible by 11 also.

4) A theft was reported in a police station and police detained 3 persons Tommy, Lee and Andy on the basis of doubt. However everyone said that he did not steal and one among the other two is the thief. Later on police came to know that Tommy was lying. Who was the real thief?

Ans Tommy

He gave 2 false statements:

1: he didn't steal though he was the thief.

2: one among the other two did it. If he is the thief how can other 2 do it.

It was very easy and in fact that created a doubt in everyone cross checked it again and again to be sure as nobody was expecting such a simple puzzle.

5) The temperature is noted for 5 consecutive days and it is noted that no two days have the same temperature. Moreover the product of all the 5 readings is 12. The difference is noted to the nearest degrees. What were the readings of the temperature?

Ans: -2, -1, 1, 2, 3

6) There are five persons in an office in the post of buyer, clerk, foot walker, manager, cashier. Allen, Bennett, Clark, Ewinger, Davis holds the post. Among the 5 two have their lunch time from 11:30- 12:30 and the rest have it in 12:30, 1:30 Mrs. Allen and Mrs. Bennett are sisters. Cashier and clerk share their lunch among themselves. Two Bachelors share their rooms. Davis and Ewinger doesn't face each other from the day Davis reported Ewinger to the Manager when he returned from lunch and found out that Ewinger has already left for lunch before time.

Ans:

7) A dice has faces 1 against 6, 3 against 5 and 2 against 4 always. How many such combinations of faces are possible in a dice?

Ans 24

Keeping 1 and 6 fixed, we can have two combinations of 6 and 3, and two of 2 and 4 that means four. And interchanging 1 and 6 we can have two more combinations that means with one pair 8 combinations are there: $4 \times 2 = 8$. Similarly with other two also 8 combos. So in all $8 \times 3 = 24$ combos are possible.

8) A boy age is 5 times as old as his sister. His father's age is twice to that of his mother who is five times as old as the boy. The sum of all of them equals to that of his grandmother who is celebrating his 81st birthday. How old is the boy?

Ans: 5 years old

Let boys age be x

Sister's = $x/5$

Mother's = $5x$

Father's = $2(5x)$

Grandmother's=81

$$81 = x + 5x + 25x + 125x$$

$$81 * 5 = x + 5x + 25x + 125x$$

$$405 = 156x$$

$$x = 405/156$$

$$x = 5$$

So boys age is 5 years

9) It was something like 4 persons take part in a race and got different ranks. what were their ranks:
John, black, Wee, Anthony

Conditions were given like

If John stood first then wee cant be on 4th position and Anthony at 2nd position.
Similarly 4 5 conditions were given

10) An easy question with 4 subparts

A painter has 7 paintings and he follows certain rules while exhibiting the paintings:

Never places x and y in the same exhibit

If y is there z is also there

U is there if and only if w is there

Following these constraints 4 questions were asked based on the possible combinations in the exhibit