

### Puzzle

**1. The time a passenger train takes to cross another freight train is twice when the passenger train crosses the freight train running in opposite directions. What is the ratio of their speeds?**

**Ans:  $P:F::3:1$**

**2. In a container A wine is half filled. In another container B, twice the capacity wine is one fourth filled. They are then filled with water and poured in container C. What is the proportion of wine in container C?**

**Ans: 33.33%**

**3. There are N stations and tickets are issued from all the stations to the other stations. When some more stations were added to the route then 46 more tickets were introduced. How many are some? How many initial stations were there?**

**Ans: 11 and 2**

**4. Ten students in a class of 100 do not take up either physics or chemistry. 75 of them atleast take up physics, 83 take up atleast chemistry. How many take up both physics and chemistry?**

**Ans: 68**

**5. The age of A when reversed becomes B's age. when age of B is taken away from A it is twice C's age. B's age is ten times that of C's. What are their ages?**

**Ans:  $A=54$ ;  $B=45$ ;  $C=4.5$**

**6. A woman gave a man for his trust half the amount of pennies in her purse and one penny more. She gave another man half of the remaining amount and two pennies more. She gave yet another half of the remaining amount and three pennies more. And now she has only one penny remaining in her purse. How many pennies did she have initially?**

**Ans: 42**

**7. In the construction of a house these were required Designer and Painter equals Rs. 1100 Painter and Plumber equals Rs. 1700 Plumber and Electrician equals Rs. 1100 Electrician and Constructor equals Rs. 3200 Constructor and Mechanic equals Rs. 5300 Mechanic and Painter equals Rs. 3200 What are their individual costs?**

**Ans: Designer=200; Painter=900; Plumber=800; Electrician=300; Constructor=3000; Mechanic=2300**

**8. Three persons A, B, c run a race. They belong to the following categories not in order: Sororean, who always told the truth; Nororean, who always told lies and Midrorean who told lies and truth alternatively but not necessarily in this order. After the race they said the following.**

**Runner A**

**1) C has interrupted me in the race.**

- 2) B has won the race.
- 3) I have not won the race.

**Runner B**

- 1) I have not won the race.
- 2) A has won the race.

**Runner C**

- 1) B has won the race.
- 2) I have not interrupted A in the race.

**To which categories did they belong?**

**Ans: A=Nororean; B=Sororean; C=Midroean**

**9. Tom has a martian friend named Dorman who got lost. He learnt their language and asked three martians named Aken, Bak, and Cwon who belonged to the categories Uti (who always spoke the truth), Yumi (who always lied) and Grundi (sometimes truth / sometimes lied). Tom asked them two questions viz. Which category do you belong? Which category does Dorman belong?**

**Aken replies**

**I am not an Uti.**

**Dorman is not a Grundi.**

**Bak replies**

**I am not an Uti.**

**Dorman is not a Yumi.**

**Cwon replies**

**I am not a Grundi.**

**Dorman is not an Uti.**

**(There was probably a printing Error but answer could be easily inferred)**

**Ans: Dorman is 'Uti'**

**10. (This was the toughest question and no one in my knowledge was confident of the correct answer)**

**At the scene of the murder there is a Witness, Victim, Murderer, Policeman, Judge, and Hangman. The witness did not see the shooting but heard an altercation before the victim was shot to death. The murderer was convicted and finally hanged to death. The persons are Fillip, Clark, Hunt, Walt, Graham and Bill.**

- 1) Hunt and Walt never met.
  - 2) the policeman picked up Graham from the scene of the crime.
  - 3) Bill was the last to see Fillip alive..
  - 4) Clark was asked by the judge to give his account of the shooting.
  - 5) Hunt knew both the victim and the murderer
- Identify who was who?**

**Ans: Only Fillip is the victim can be properly inferred.**

## Puzzle

1) There is a five digit number. The fifth digit is one fourth of the third digit and one half of the fourth digit. Third digit is one half of the first digit., second digit is 5 more than the fifth digit.

What is that 5 digit no.?

2) There are three associates and they have some money in a room. But no one is believing others alone. so,

a) No one should be able to open the room alone.

b) When any 2 persons are combined they should be able to open the room.

What is the minimum no. of locks & keys required.? (5M)

3) A simple racing prob. like Samantha beat Jim. Jack lost to Jim. John was not last. And the prob goes like this... (simple)

4) A boy goes to school from his house. on one fourth of his way to school, he crosses a machinery station. And on one third of his way to school, he crosses a Railway station. He crossed the machinery station at 7:30 and he crosses the Railway station at 7:35. when does he leave the house & when does he reach the school ? (5M)

5) An Eraser, Pencil, Notebook together costs \$1.00. Notebook costs more than the cost of 2 Pencils. 3 Pencil costs more than 4 Erasers. 3 Erasers costs more than a Notebook. How much does a pencil cost? (5M)

6) I can't remember the prob. fully. (\* Check this in previous questions. Its there!) Old Problem with three inhabitants of three castes. Abhor, Magar & Dravid. (8M)

1) Abhor women cannot marry Dravid man.

2) Dravid women cannot marry Magar man.

3) Male child gets the father's caste and female child gets the mother's caste.

4) all other marriages are allowed.

4 questions related with this...each of 2 marks... like...

1) A magar man can have ...

a) a dravid grandmother.

b) a abhor mother.

c)....

7) Series...

a) 3, 6, 13, 26, 33, 66, ?

b) 364, 361, 19, 16, 4, 1, ?

8) A large cube is painted on all sides with Red color. It is then cut into 27 small cubes. How many sides of the cube will have...

a) 3 red faces.

b) 2 red faces.

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**c) 1 red face.**

**d) No red faces. (8M)**

**9) Four persons A,B,C,D were there. All were of different weights. All Four gave a statement. Among the four statements only the person who is lightest in weight of all others gave a true statement.**

**A Says : B is heavier than D.**

**B Says : A is heavier than C.**

**C Says : I am heavier than D.**

**D Says : C is heavier than B.**

**Find the lightest & List the persons in ascending order according to their weights. (5M) i gave all those that i know. So, Please no Queries regarding this.**