



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

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COIMBATORE-641 035, TAMIL NADU

DEPARTMENT OF MATHEMATICS

PUZZLE

On a train, S, R, and J are the fireman, brakeman, and the engineer, but may NOT be in order. Also aboard the train are three businessmen who have the same names: a Mr. S, a Mr. R, and a Mr. J. Using the clues below, can you determine the identity of the Engineer?

1. Mr. R lives in Dehradun.
2. The brakeman lives exactly halfway between Noida and Dehradun.
3. Mr. J earns exactly Rs. 4,00,000 per year.
4. The brakeman's nearest neighbor, one of the passengers, earns exactly three times as much as the brakeman.
5. S beats the fireman in badminton.
6. The passenger whose name is the same as the brakeman's lives in Noida.

Solution & Explanation

a) Mr. R lives in Dehradun and the brakeman's nearest neighbor earns exactly 3 times as much as the brakeman.

Therefore, neither Mr. R nor Mr. J is the brakeman's nearest neighbor, so it must be Mr. S.

b) S beats the fireman at badminton and the passenger whose name is the same as the brakeman's lives in Noida. Mr. R lives in Dehradun and Mr. S lives between Noida and Dehradun. Therefore, it must be Mr. J who lives in Noida and J is the brakeman.

c) S is not the brakeman and he is not the fireman. He must be the engineer.

Name	City	Occupation	Earning
S	Noida	Engineer	
R	Dehradun	Fireman	
J	B/w Noida & Dehradun	Brakeman	
Mr. S	B/w Noida & Dehradun		
Mr. J	Noida		4,00,000
Mr. R	Dehradun		