

SNS academy



an International CBSE Finger Print School Coimbatore

PUZZLE

TIME AND MOTION

Alice and Bob - Travel and Meeting Analysis

Alice and Bob live in different cities, 120 miles apart. They decide to meet for lunch at a restaurant located exactly halfway between their cities. Alice drives at a constant speed of 60 miles per hour. Bob, eager to arrive early, drives at a constant speed of 80 miles per hour.

Alice leaves her house at 11:00 AM. Bob leaves his house at 10:45 AM.

Questions:

- 1. Who arrives at the restaurant first, Alice or Bob?
- 2. How long does Alice take to reach the restaurant?
- 3. How long does Bob take to reach the restaurant?
- 4. How long does the person who arrives first have to wait for the other person?
- 5. If Bob wants to arrive at the restaurant at the same time as Alice, at what time should he leave his house?