

## Could you help Sheldon Stop a Bank Robbery?

Professor **Dr John Surgis** has looked at a series of bank robberies to determine who is responsible and where they will Rob next

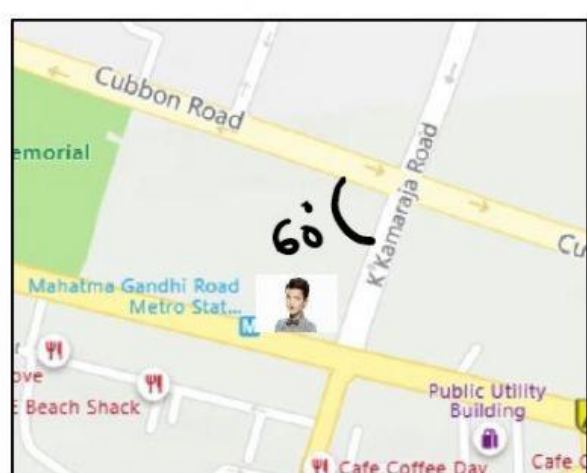
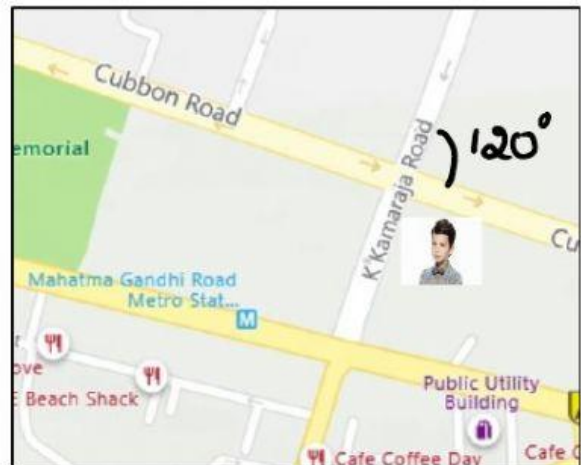


His student Mr. Sheldon Cooper Collects data and gives it to his professor to help him make predictions



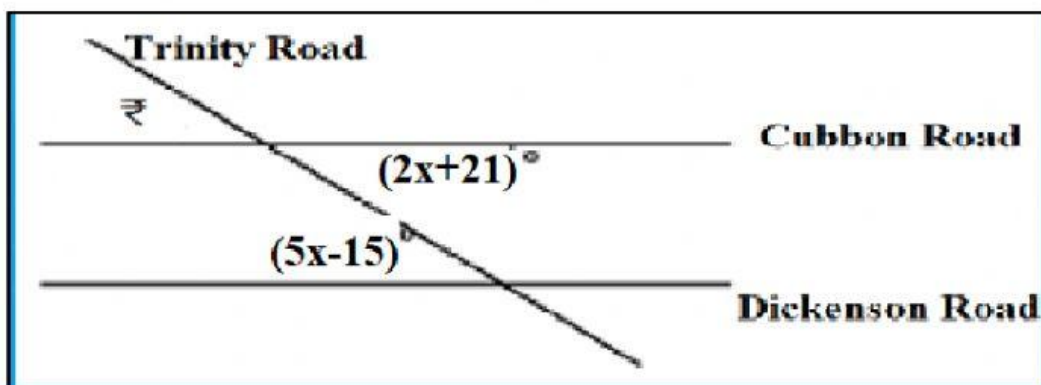
1. Sheldon first decided to do surveillance.

Determine the angle measurement of Sheldon's position when two parallel roads, Mahatma Gandhi Road and Cubbon Road, are crossed by a third, K Kamaraja Road.



2. Evidence shows that the robbers have a big getaway vehicle so they will only consider robbing a bank if the angle in front of the bank is greater than  $50^\circ$ . Two parallel roads, Cubbon Road, Dickenson Road, are crossed by a third, Trinity Road as shown in the pic. Sheldon has found from his survey that there are two banks located in these intersections.

- a) There is a City Bank located on the map below, represented by the Sign ₹. Will the robbers consider robbing this City Bank? Explain your answer.



- b) There is an AXIS bank located on the map below, represented by the sign ₹. Will the robbers consider robbing this Bank? Explain your answer

