Number Of Restaurants In London

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Number of restaurants in London

Approach:-

Restaurants are located at the sides of the roads, generally, major roads are highway. So we can estimate the length of the road (major roads & highway) and then place two restaurants at a suitable distance.

Area of London

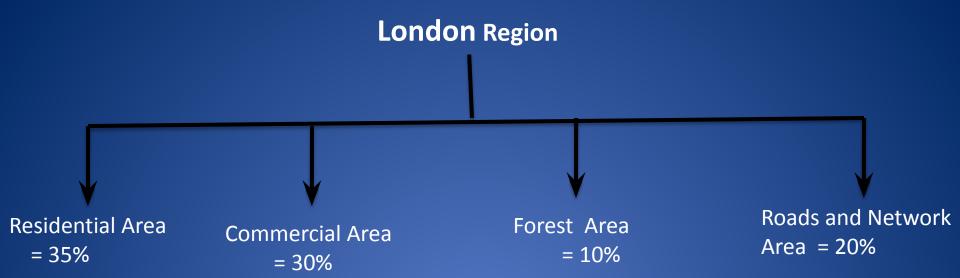
Assume London to be a square with metro's red and black as show in the figure.

We assume that there are 30 stations each in both the metro routes and average distance between two stations being **2KM**.

Approx Area = $\frac{1}{2}$ *60*60 = 1800 Sq. KM Of London



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Area of Roads in London = 20% of 1800 sq KM = 360 sq KM We can take it approx ~ 350 sq Km



Municipal Roads 35%

Almost ~ 125 sq KM

Generally society roads have more restaurants and It have restaurants on distance of 0.25 Km. With the width of 15m

State Roads 50%

Almost ~ 175 sq Km

These types of roads have many parts

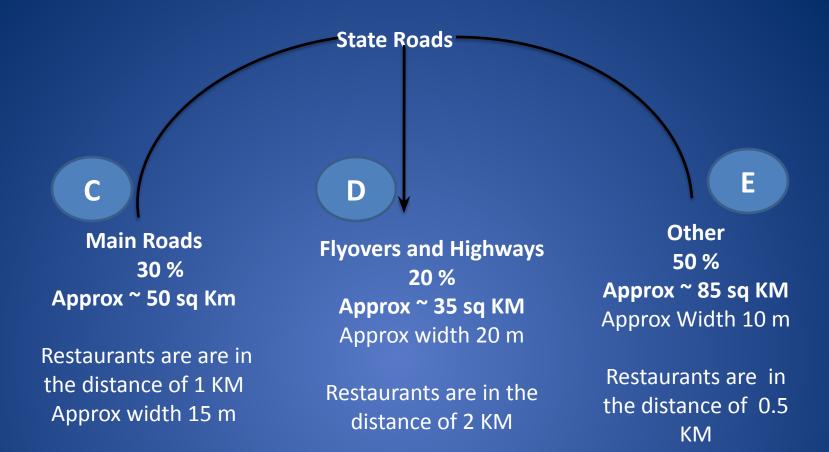
Central Govt. Roads 15%

B

Almost ~50 sq Km

Generally Highway are in these roads so restaurants are on some good distance like 2 Km

With the width of 25m



Length of Roads

- A) $(125 \text{ sq KM})/15\text{m} = 8333.33 \text{ KM} \sim 8333 \text{ KM}$
- B) (50 sq KM)/25m = 2000 KM
- **C)** $(50 \text{ sq KM})/15\text{m} = 3333.33 \text{ KM} \approx 3333 \text{ KM}$
- D) (35 sq KM)/20m = 1750 KM
- E) (85 sq KM)/10m = 8500 KM

Number of Restaurants

- A) 8333 KM/0.25 KM = 33332
- B) 2000 KM / 2 KM = 1000
- C) 3333 KM/ 1 KM = 3333
- D) 1750 KM/ 2 KM = 875
- E) 8500 KM/0.5 KM = 17000

Total = 55540 Restaurants

Thank You