

Eiffel Tower



The Eiffel Tower is a wrought iron lattice tower on the Champ de Mars in Paris, France. It is named after the engineer Gustave Eiffel, whose company designed and built the tower. The Eiffel Tower was constructed in 1887–89 as the entrance to the 1889 World's Fair. The tower is 324 metres (1,063 ft) tall, about the same height as an 81-storey building, and the tallest structure in Paris. Since it opened in 1889, almost 250 million visitors have come to see the tower. The Eiffel Tower has 20,000 light bulbs, 5,000 per side, that sparkle for five minutes on the hour, every hour, from nightfall to 1AM.

Painted Cube Problem

Consider a $3 \times 3 \times 3$ cube, if the cube is painted on all sides and then corner cubes of one face are removed. The cube is then cut into small cubes. Find

- 1. Number of 3 side painted small cube(s)*
- 2. Number of 2 side painted small cube(s)*
- 3. Number of 1 side painted small cube(s)*
- 4. Number of no side painted small cube(s)*

