

St. Andrews Scots Sr. Sec. School

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Session:2024-25

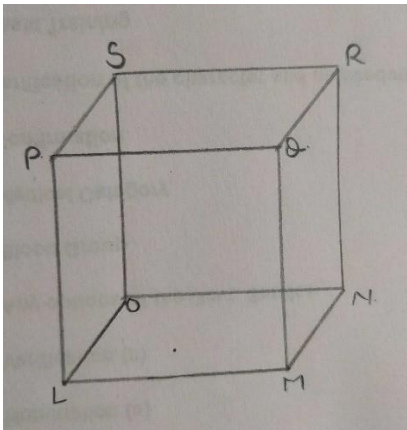
Worksheet

Class: VII	Subject: Mathematics	Topic: Visualising solid shapes	Worksheet 13
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Q1. What is polyhedron?

Q2. How many types of polyhedron are there?

Q3. Which formula is giving a relation between number of faces, edges and vertices of a



polyhedron?

Q4. The given figure is a cube:

- Which edge is the intersection of faces RSON and RQMN?
- Which faces intersect at edge LO?
- Which three faces form the vertex P?
- Which vertex is formed by the faces RQMN, PQML and LMNO?
- Give all the edges that are parallel to edge PQ?

Q5. Using Euler's formula find the unknown.

Faces	?	5	20
Vertices	6	?	12
Edges	12	9	?

Q6. Can a polyhedron have 10 faces, 20 edges and 15 vertices?