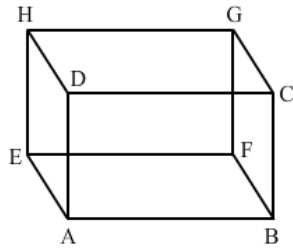


Three Dimensional Shapes Ex 19A

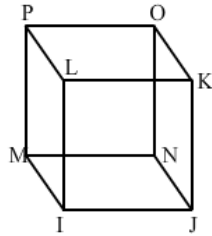
Q1.

Answer :

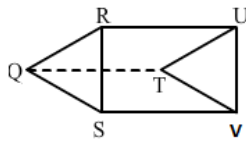
(i) A cuboid has 6 faces, namely $ABCD$, $EFGH$, $HDAE$, $GCBF$, $HDCG$ and $EABF$.



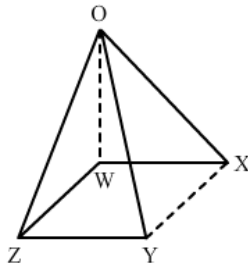
(ii) A cube has 6 faces, namely $IJKL$, $MNOP$, $PLIM$, $OKJN$, $LKOP$ and $IJNM$.



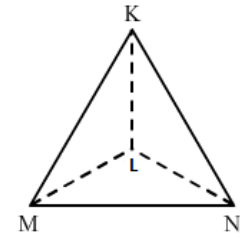
(iii) A triangular prism has 5 faces (3 rectangular faces and 2 triangular faces), namely $QRUT$, $QTVS$, $RUVS$, QRS and TUV .



(iv) A square pyramid has 5 faces (4 triangular faces and 1 square face), namely OWZ , OWX , OXY , OYZ and $WXYZ$.



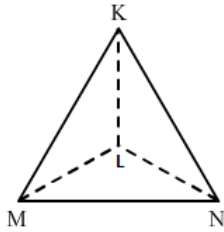
(v) A tetrahedron has 4 triangular faces, namely KLM , KLN , LMN and KMN .



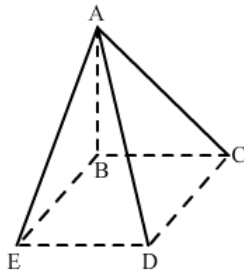
Q2.

Answer :

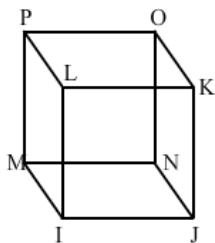
(i) A tetrahedron has 6 edges, namely KL , LM , LN , MN , KN and KM .



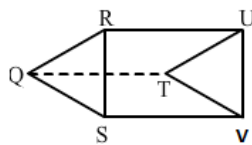
(ii) A rectangular pyramid has 8 edges, namely AB , AE , AD , AC , EB , ED , DC and CB .



(iii) A cube has 12 edges, namely PL , LK , KO , OP , MN , NJ , JI , IM , PM , LI , ON and KJ .



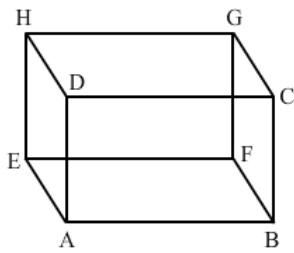
(iv) A triangular prism has 9 edges, namely QR , RS , QS , TU , TV , UV , QT , RU , and SV .



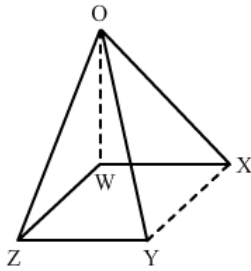
Q3.

Answer :

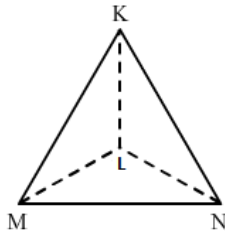
(i) A cuboid has 8 vertices, namely *A, B, C, D, E, F, G* and *H*.



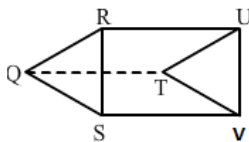
(ii) A square pyramid has 5 vertices, namely *O, W, X, Y* and *Z*.



(iii) A tetrahedron has 4 vertices, namely *K, L, M* and *N*.



(iv) A triangular prism has 6 vertices, namely *Q, R, S, T, U* and *V*.



Q4.

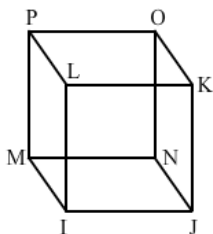
Answer :

(i) A cube has 8 vertices, 12 edges and 6 faces.

Vertices: *I, J, K, L, M, N, O* and *P*

Edges : *IJ, JN, NM, MI, PL, LK, KO, OP, PM, LI, KJ, and ON*

Faces : *MNJI, POKL, PLIM, OKJN, PONM* and *LKJI*



(ii) The point at which the three faces of a figure meet is known as its vertex.

(iii) A cuboid is also known as a rectangular cube.

(iv) A triangular pyramid is called a tetrahedraon.