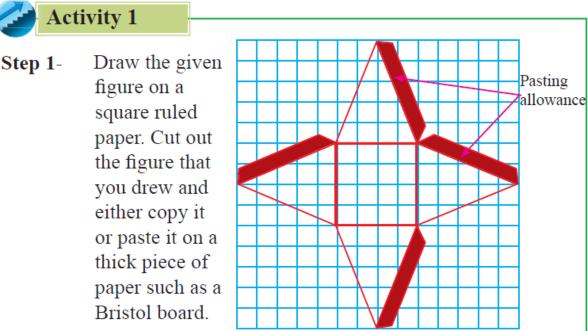
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Unit 25 – Solids

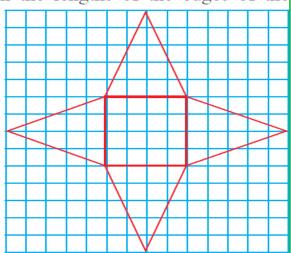
Square Pyramid

• A solid object with a square base and four equal triangular faces is called a **square pyramid**.

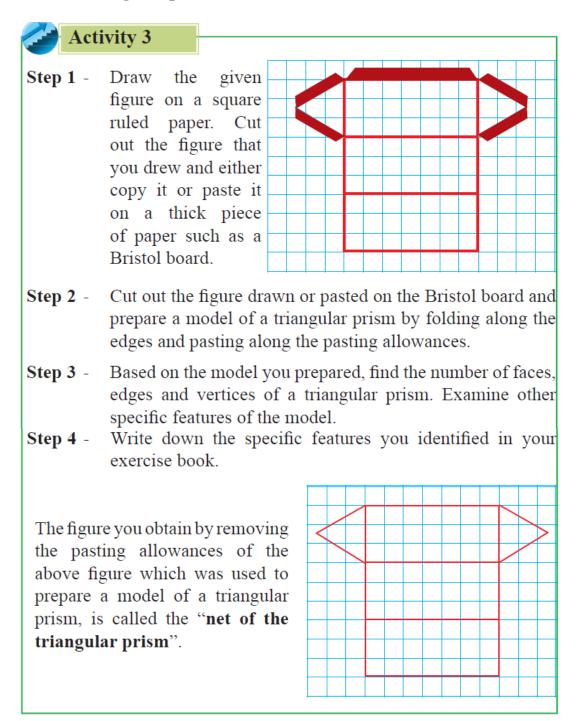


- Step 2 Cut out the figure drawn or pasted on the Bristol board and prepare a model of a square pyramid by folding along the edges and pasting along the pasting allowances.
- Step 3 Based on the model you prepared, find the number of faces, edges and vertices of a square pyramid. Examine the specific features of the model.
- Step 4 Write down the specific features you identified in your exercise book.
- Step 5 Measure and write down the lengths of the edges of the model.

The figure you obtain by removing the pasting allowances of the above figure which was used to prepare a model of a square pyramid, is called the "**net of the square pyramid**".



- Triangular Prism
 - A solid object which has 3 rectangular plane faces and two triangular faces is called a "**triangular prism**".



Euler's Relationship

Number of Vertices	+ Number of Faces	= Number of Edges $+ 2$
V	+ F	= E + 2

The above relationship which is true for solids with plane faces only, was first presented in the 18th century by a Swiss mathematician called "Leonhard Euler" who lived in Switzerland. Therefore this relationship was later called Euler's formula.



> Do all the exercises in exercises 25.1 and 25.2 in your text book