

Lessons of mathematics in English

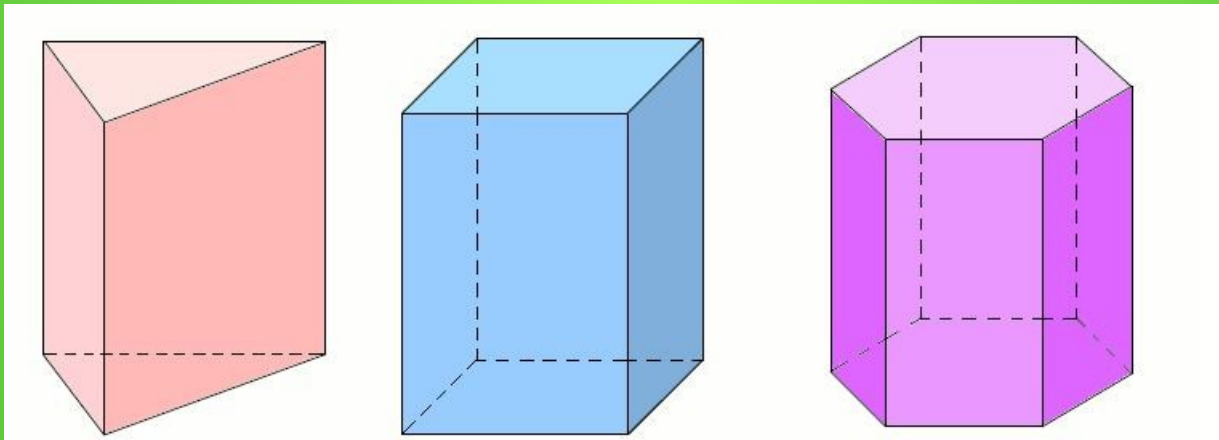
PRISM

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The Prism

is a geometric object with two identical ends and flat sides.

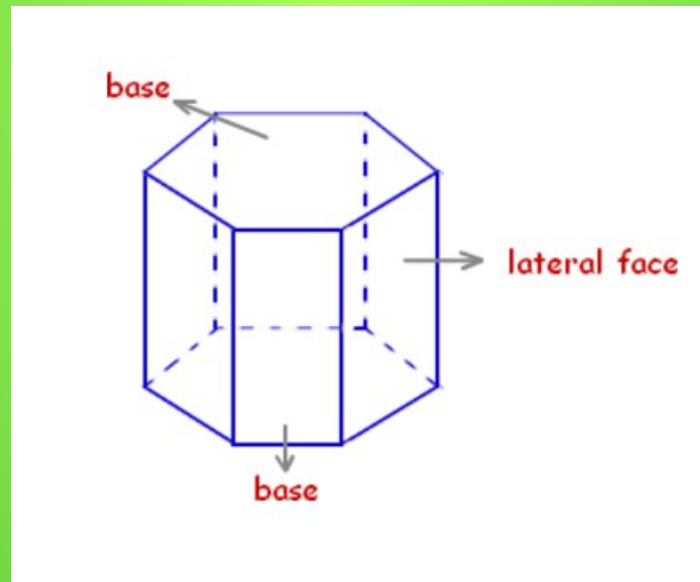


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Prism

The prism is a solid.

The prism has two bases and some lateral faces.



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Bases of Prisms

The bases are two identical polygons.

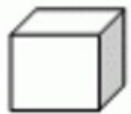
These polygons are parallel.

If the base of the prism is a triangle, we call it triangular prism.

If the base of the prism is a pentagon, we call it pentagonal prism.

Special types of tetragonal prisms are the cube or the square prism and the rectangular prism and the rectangular prism.

Kinds of prisms:



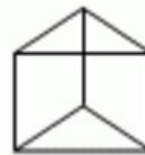
Cube or
Square Prism



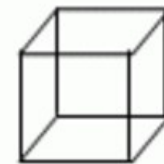
Rectangular
Prism



Cylinder or
Circular Prism



Triangular
Prism



Rectangular
Prism

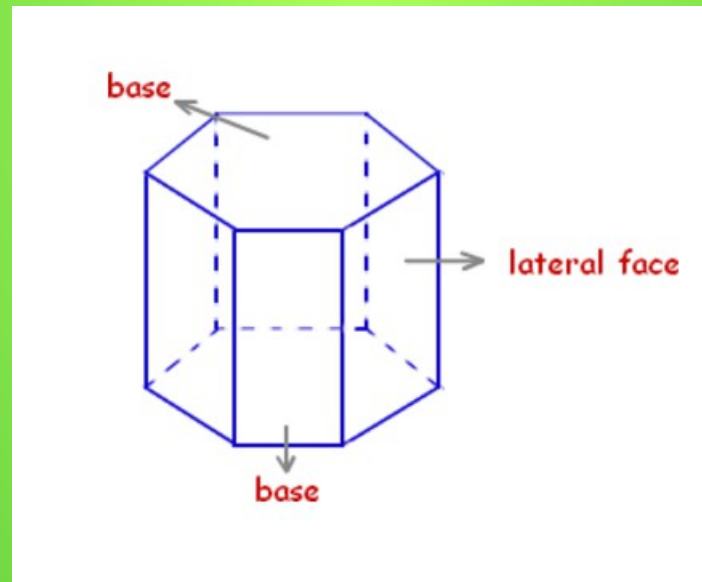


Pentagonal
Prism

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Lateral faces of the prism

Lateral faces are rectangles

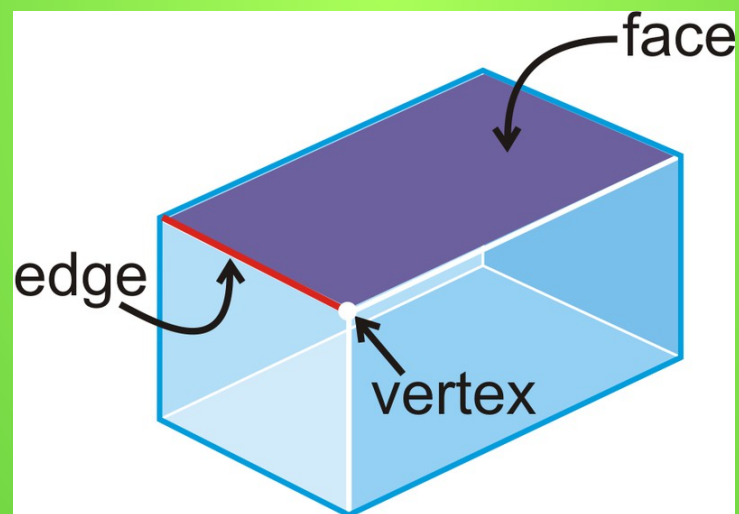


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Vertices and edges of the prism

The edge of the prism is a finite straight line where two faces meet.

The vertex of the prism is a point where three or more edges meet.

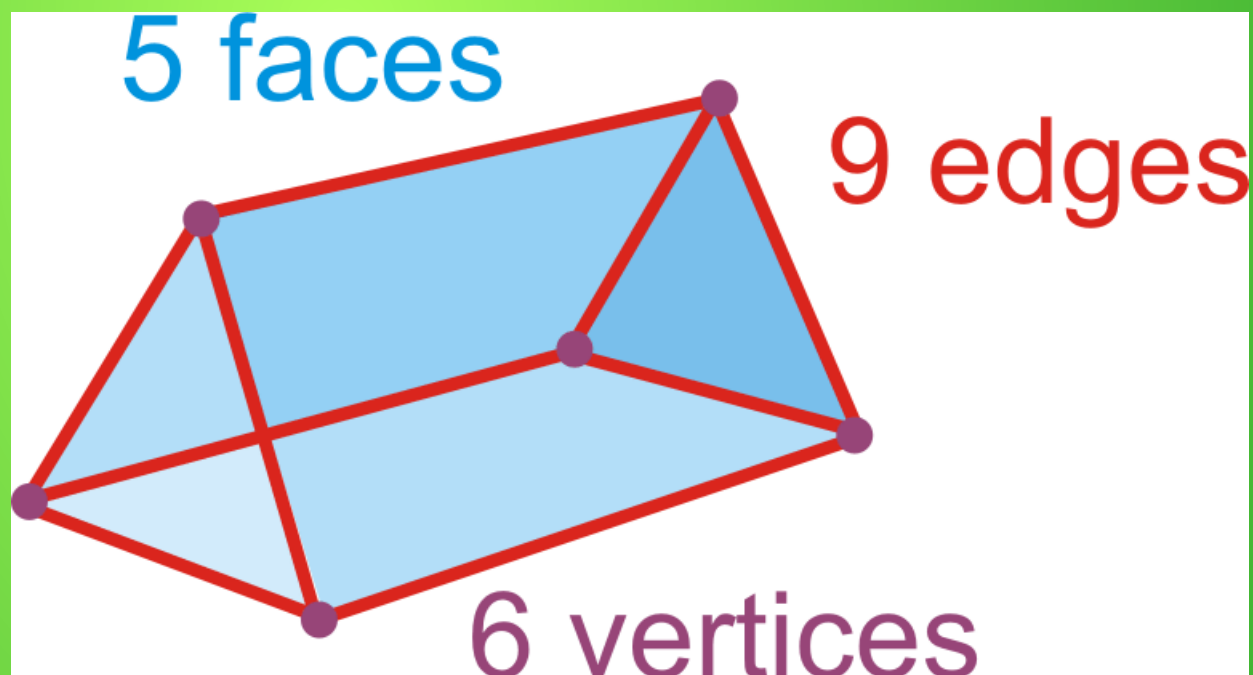


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Example

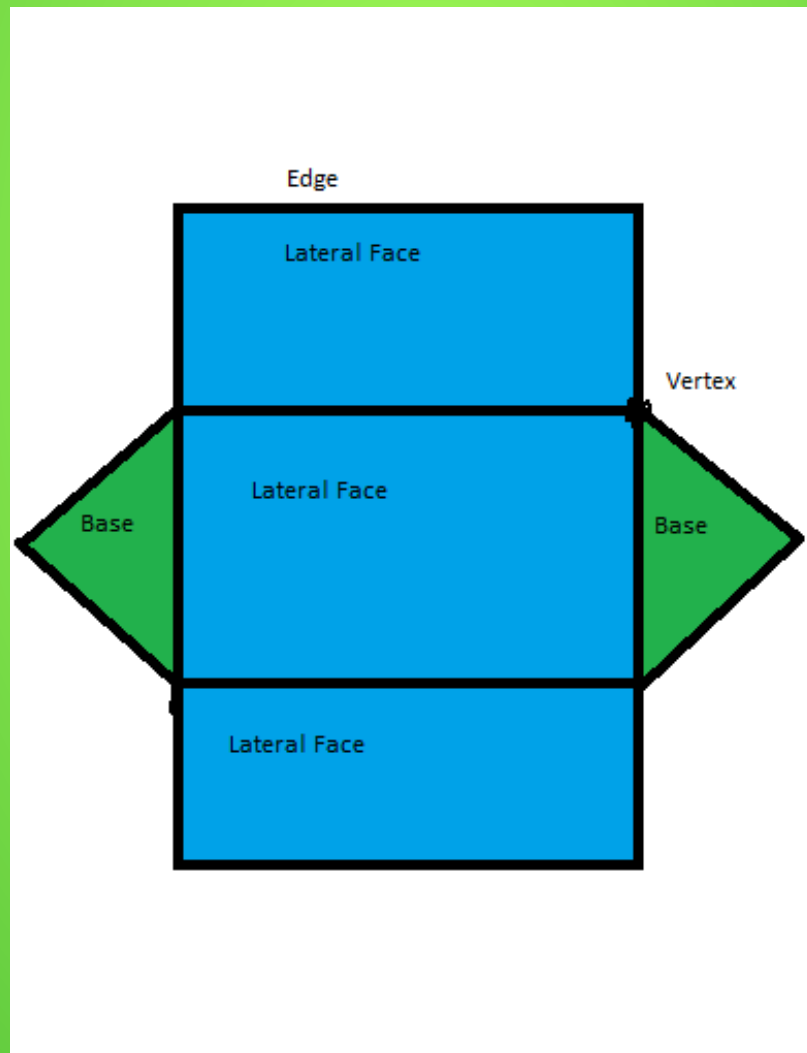
The triangular prism has:

- Five faces
- Six vertices
- Nine edges



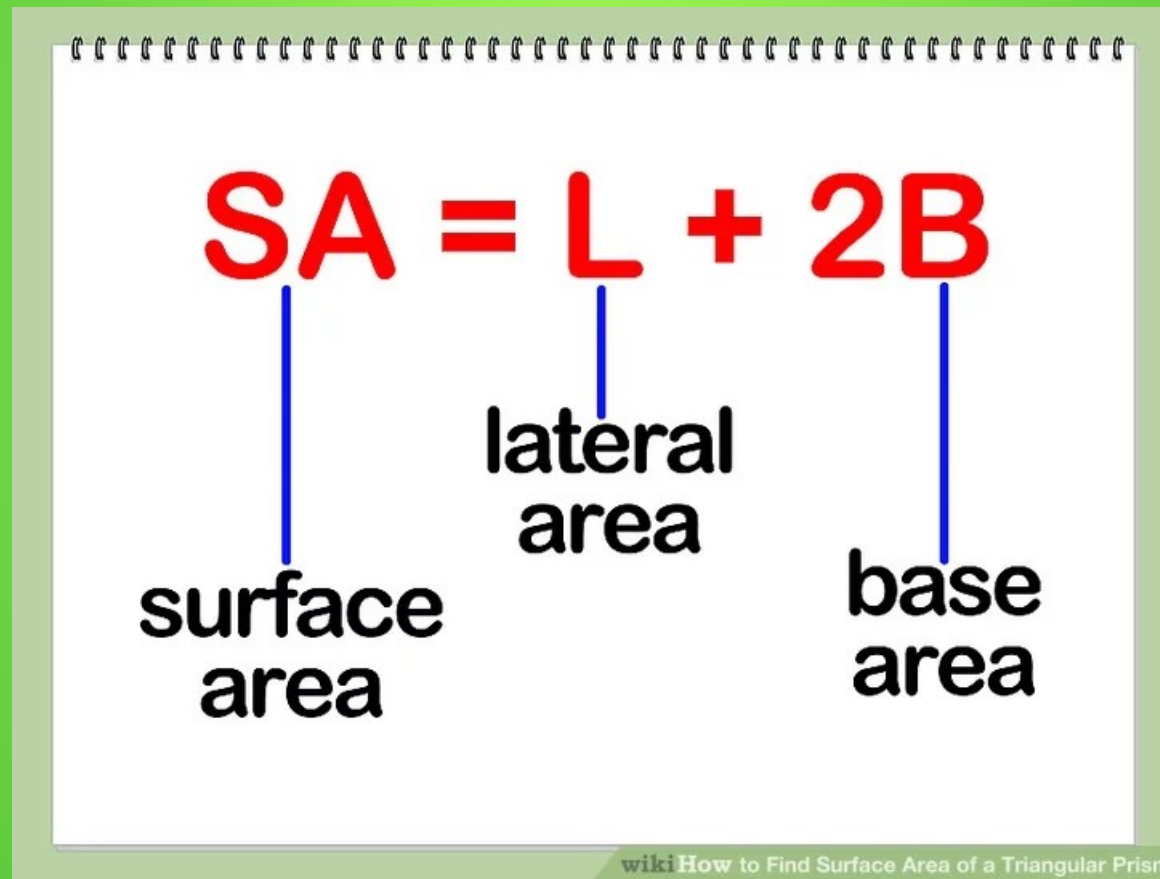
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The net of a triangular prism



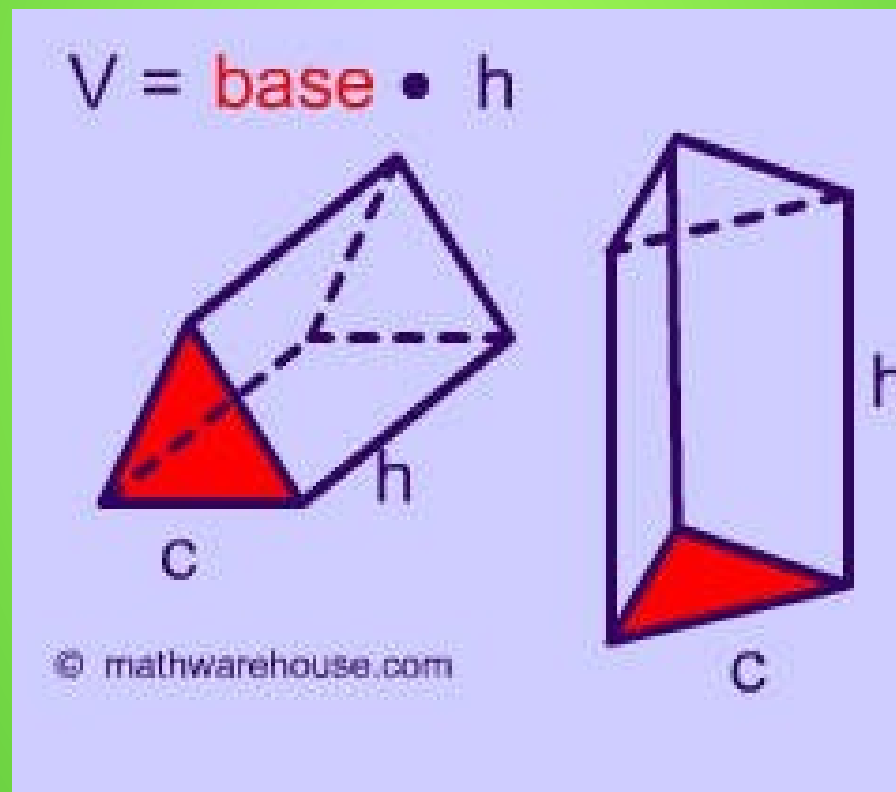
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Surface area of the prism



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Volume of the prism



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We learnt many things
about the PRISM.

Thanks for your patience.

Zdroje

- <http://formulas.tutorvista.com/math/prism-formulas.html>
- <http://kniznica.edupage.org/kniznica/?akcia=dokument&docid=14199&bm=zoznam>
- <https://www.ck12.org/user%3AZ2hhbmNveEBzaGFubm9uZm9yZXN0LmNvbQ../book/Geometry-Shannon-Forest-Mr.-Hancox/section/11.1/>
- <http://www.wikihow.com/Find-Surface-Area-of-a-Triangular-Prism>
- <http://www.mathwarehouse.com/solid-geometry/triangular-prism/formula-volume-triangular-prism.php>
- <http://www.kwiznet.com/p/takeQuiz.php?ChapterID=1448&CurriculumID=31&Num=3.18>
- <https://sites.google.com/site/prealgebrachapter7/7-4-three-dimensional-figures>
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