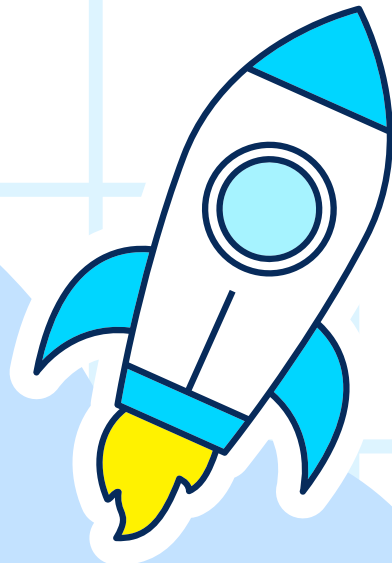
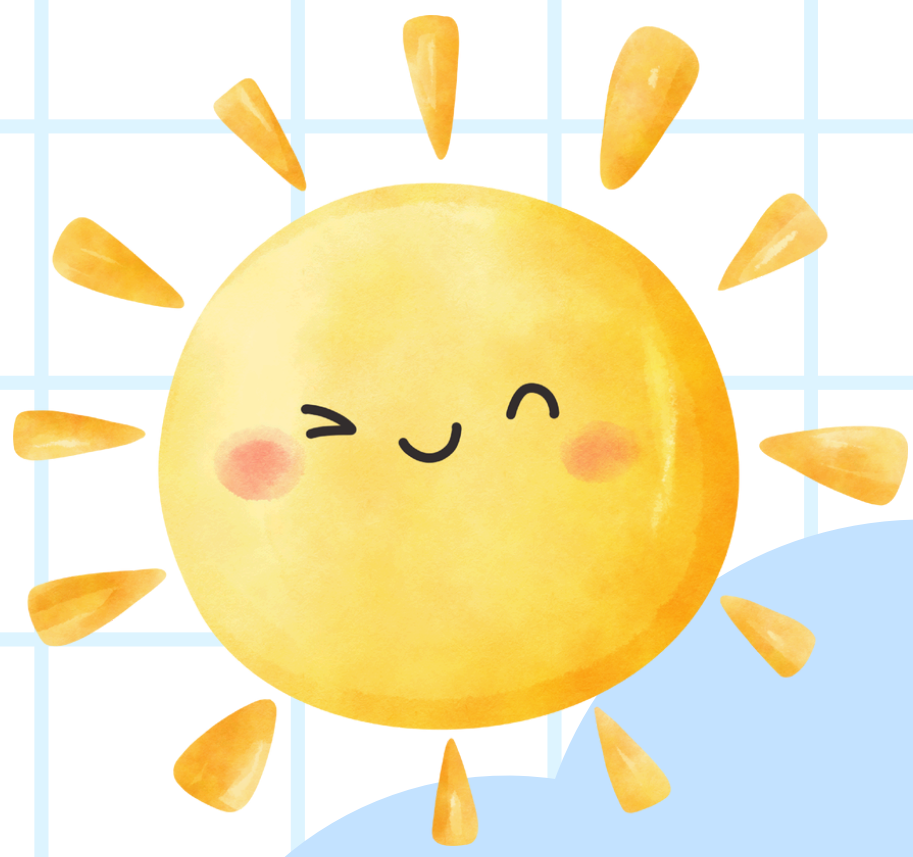
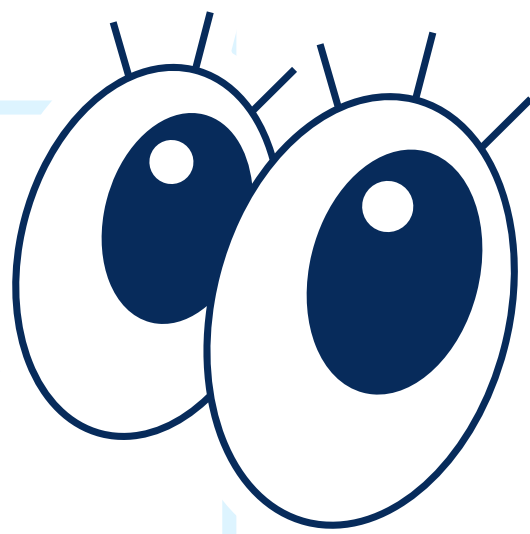


DICTIONARY NINE



TWO-DIMENSIONAL SHAPES (2D SHAPES)



Try this

- Look at the key words and the picture.
- Read the example sentence out loud.
- Imagine the story and relate it to your life.



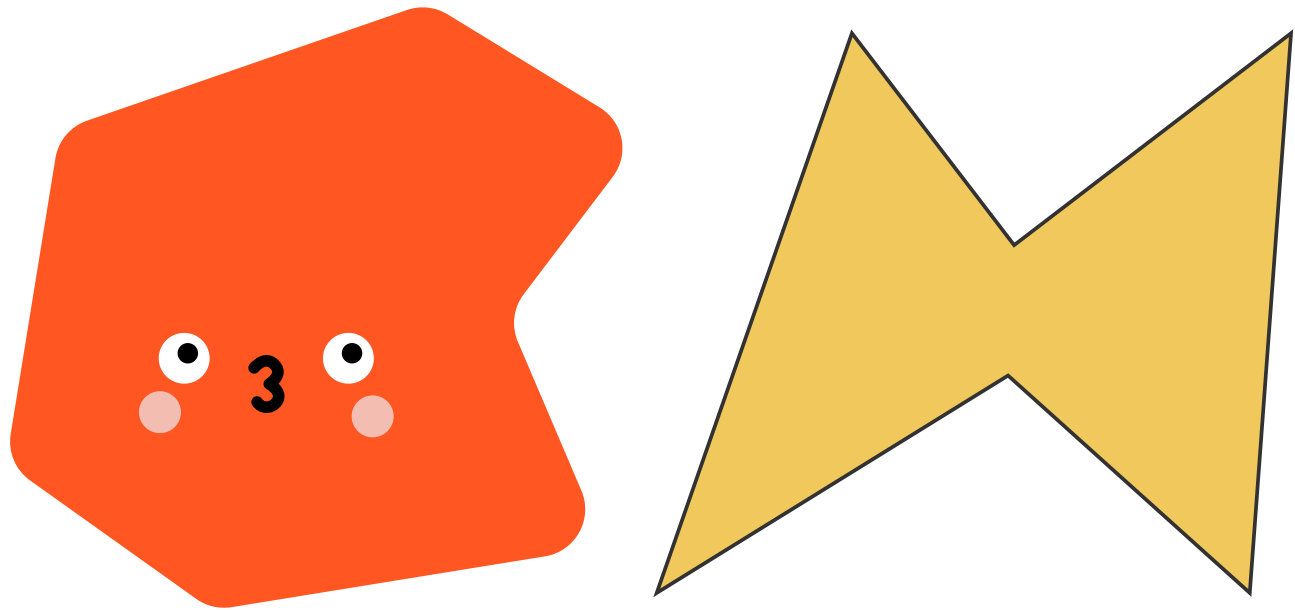
Contact Event Assistant for
more learning resources!



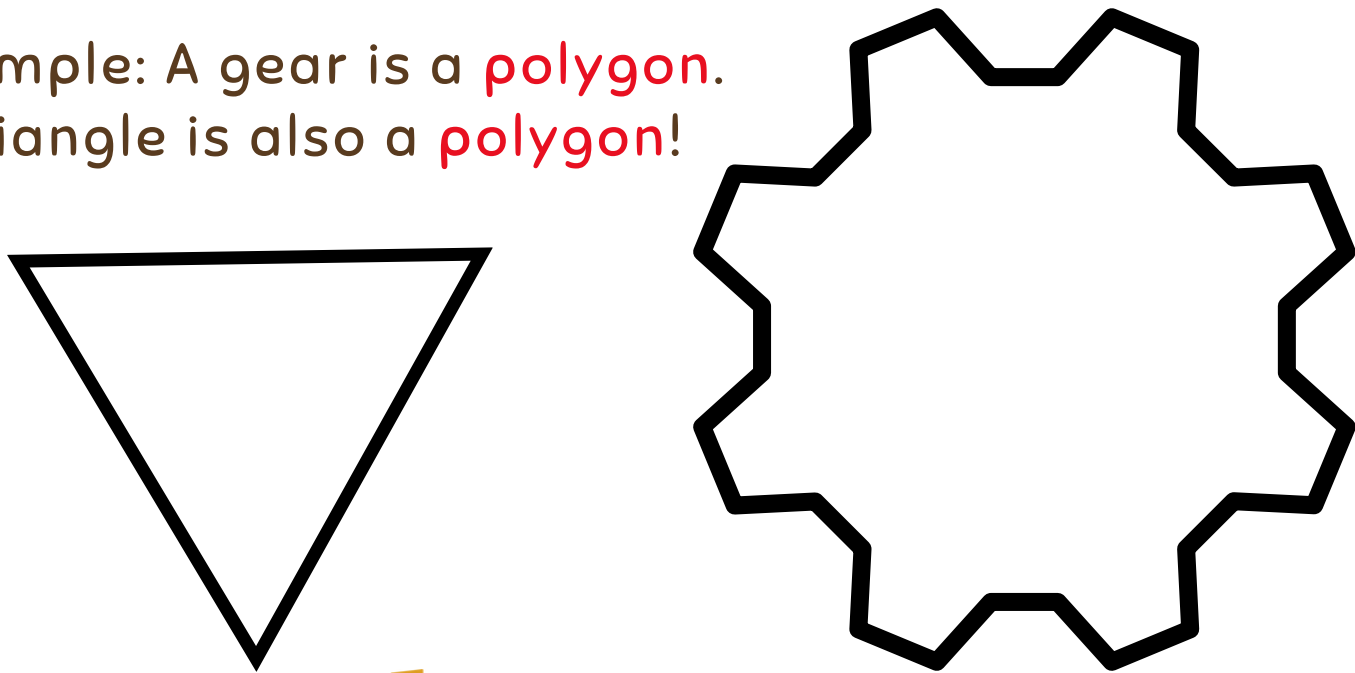
Polygon

['pɑː.li.gən] • noun

A 2D shape made of straight lines that are connected to make a closed shape. Polygons can have 3 or more sides and corners, like triangles, squares, and hexagons.



Example: A gear is a **polygon**.
A triangle is also a **polygon**!

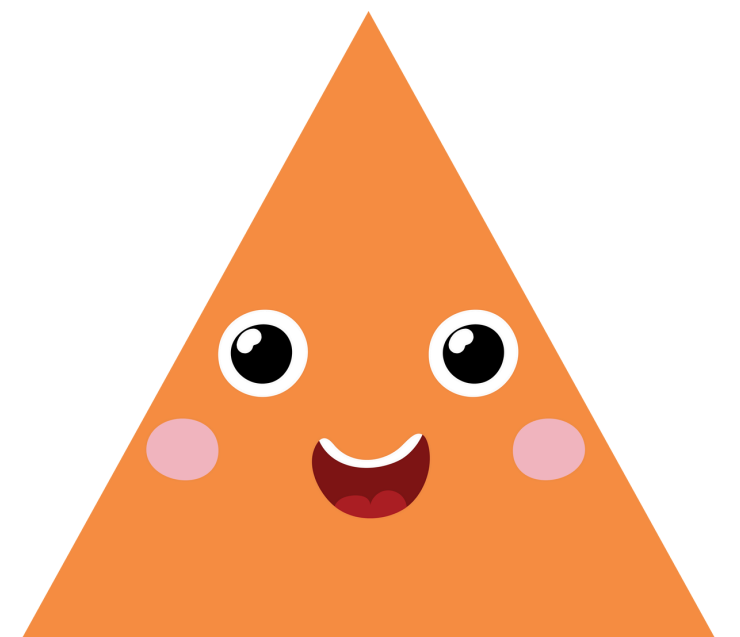
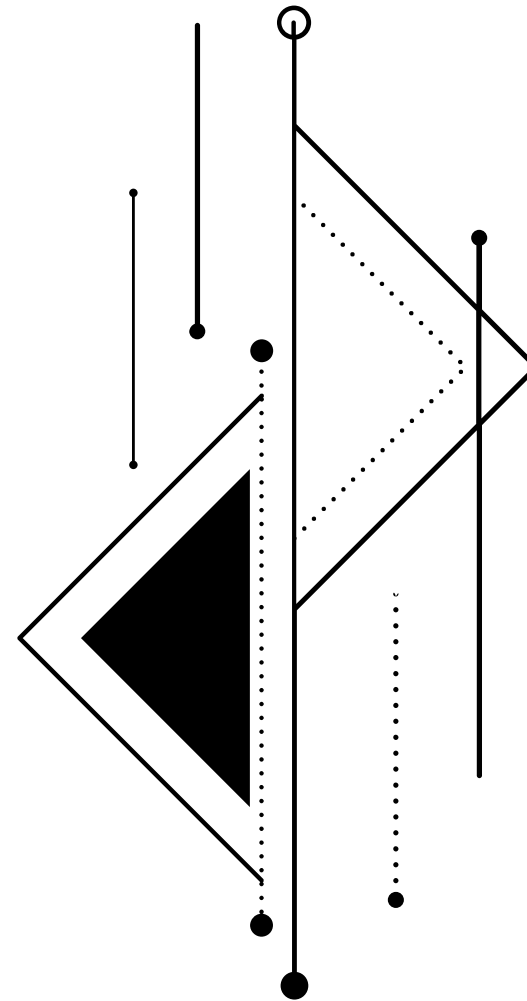


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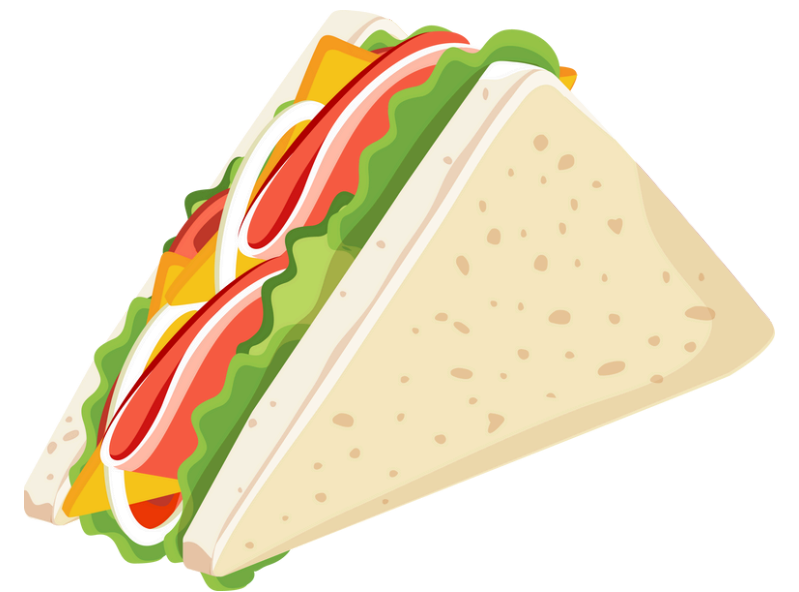
Triangle

['traɪ.æŋ.gəl] • noun

A 2D shape made with 3 straight sides and 3 corners. It can look different, but it always has three points connected by three lines.



Example:
A sandwich is a **triangle**.



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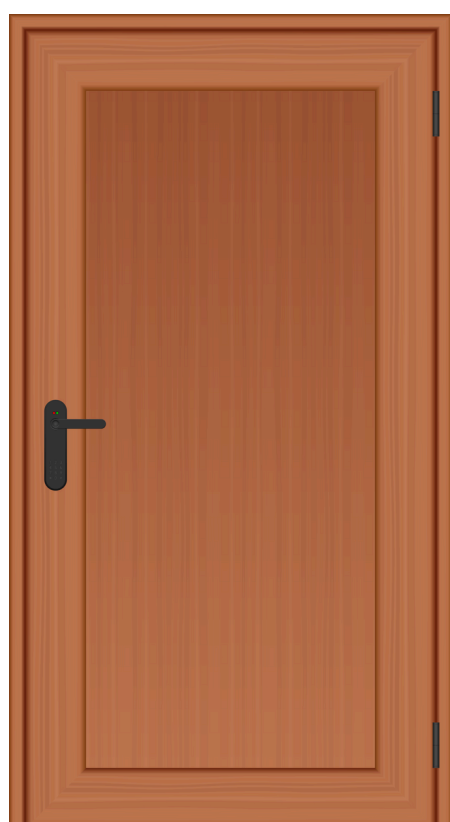
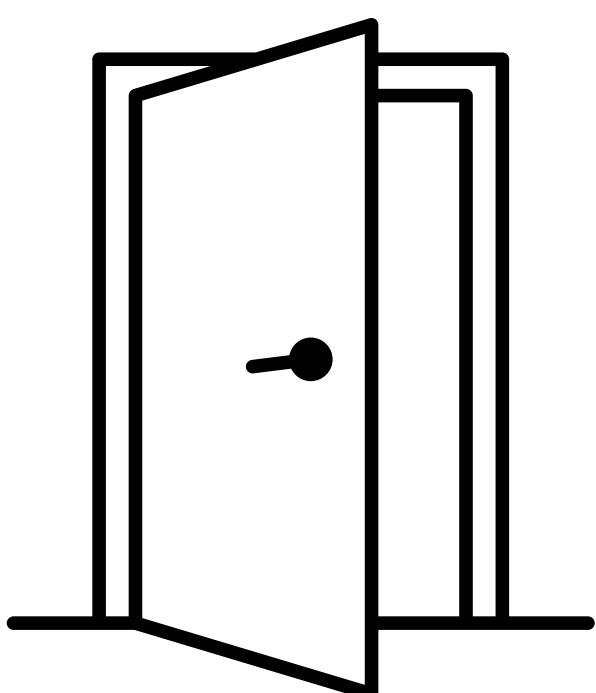
Rectangle

['rek.tæŋ.gəl] • noun

A 2D shape with four straight sides and four right angles (square corners). Opposite sides are equal in length.



Example:
The door is a **rectangle**.

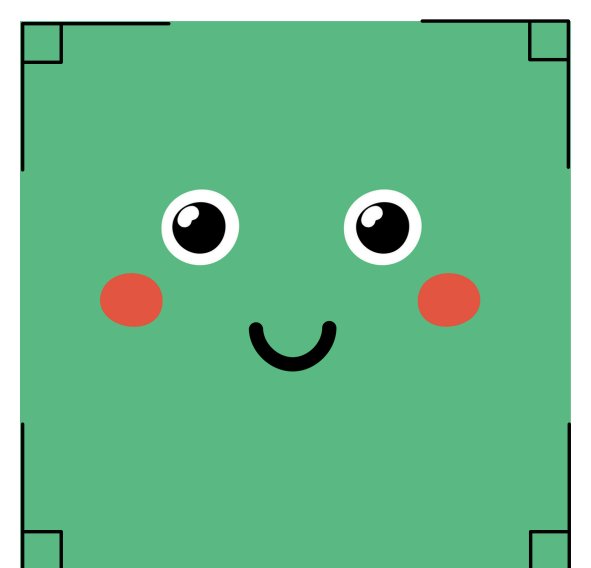


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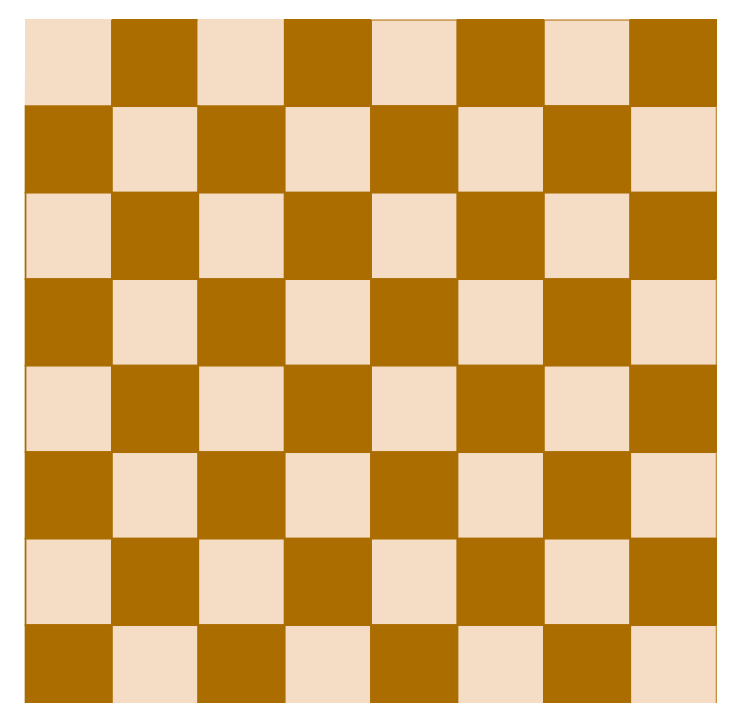
Square

[skwer] • noun

A square is a 2D shape with 4 equal straight sides and 4 right angles (square corners).



Example:
The chessboard grid is a **square**.

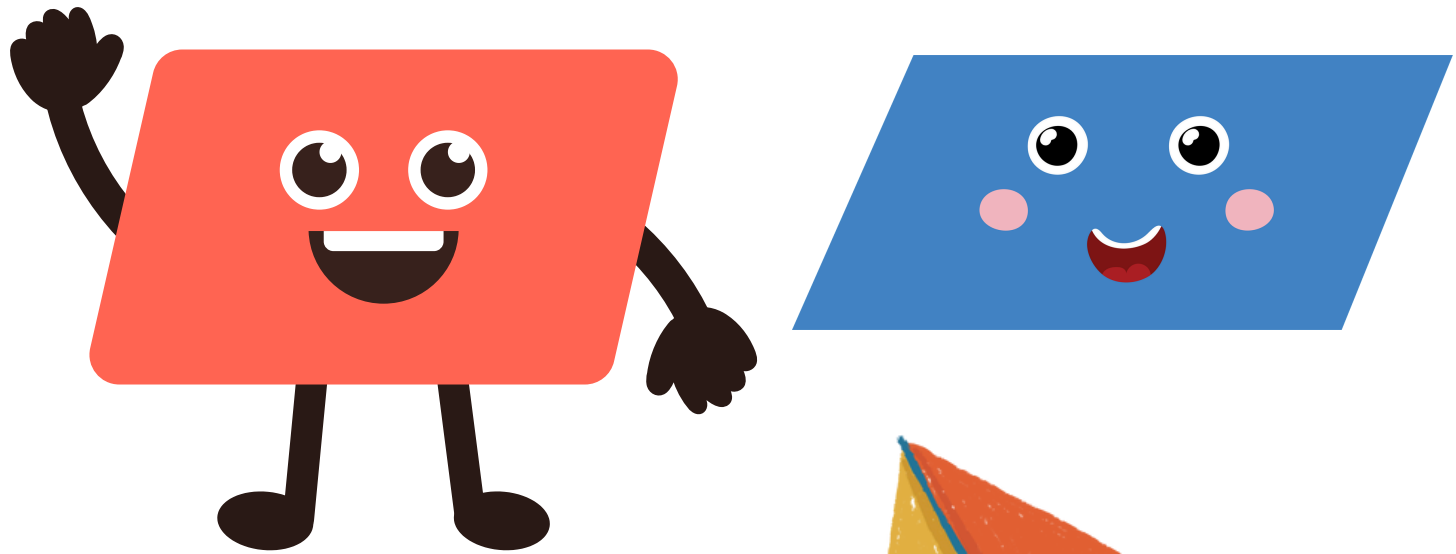


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Parallelogram

[ˌper.əˈleɪ.ə.ɡræm] • noun

A 2D shape with 4 straight sides, where opposite sides are the same length and run in the same direction. It has 4 corners, but the sides can slant, so it looks like a leaning rectangle.



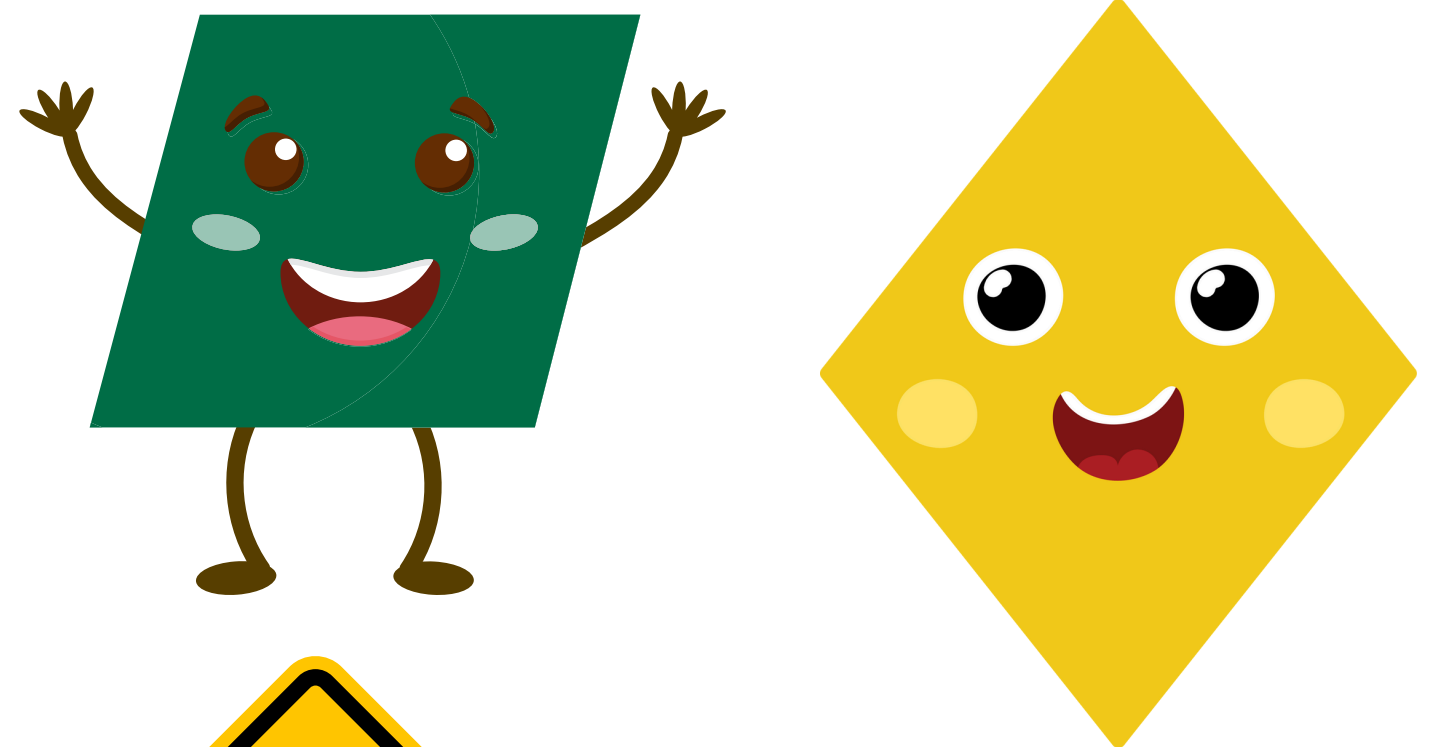
Example:
Some kites are **parallelogram**-shaped.



Rhombus

[ˈrɑːm.bəs] • noun

A special kind of parallelogram, which the shape with 4 corners and 4 straight sides that are all the same length, like a tilted square.



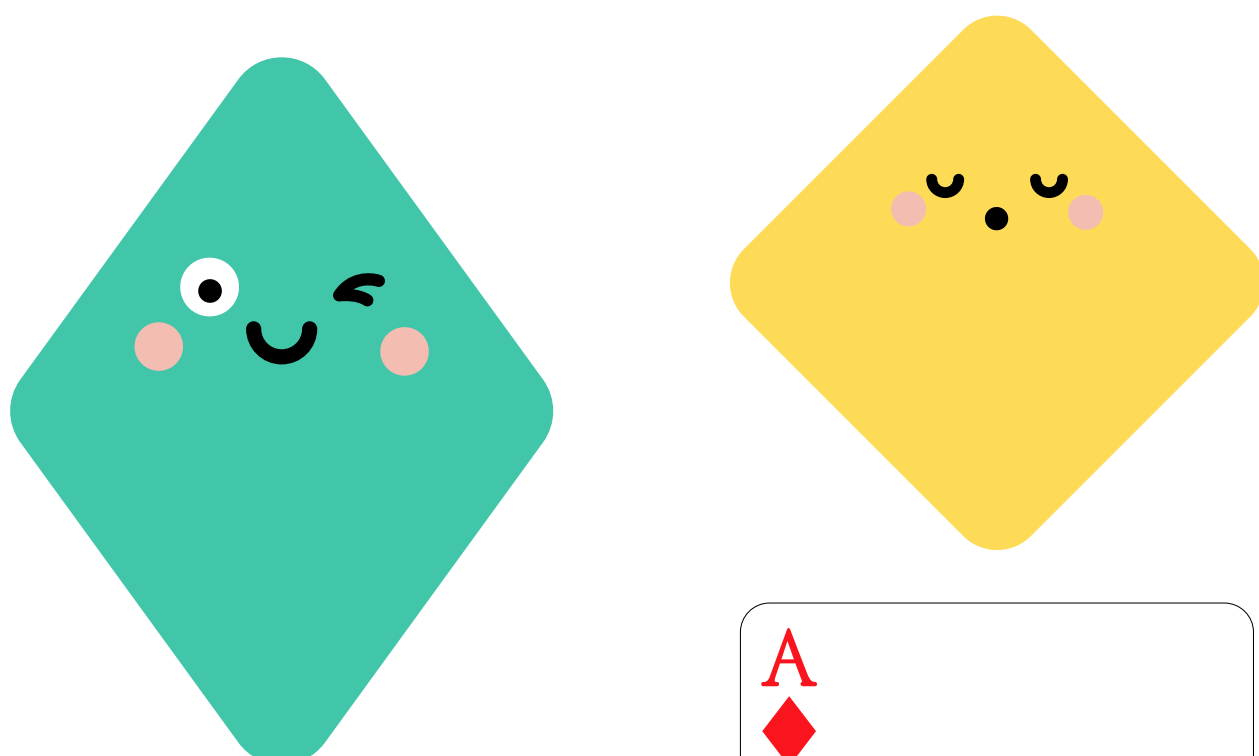
Example:
Some street signs are the shape of **rhombus**.



Diamond

[ˈdaɪ.ə.mənd] • noun

A special kind of parallelogram and is a nickname for the rhombus.



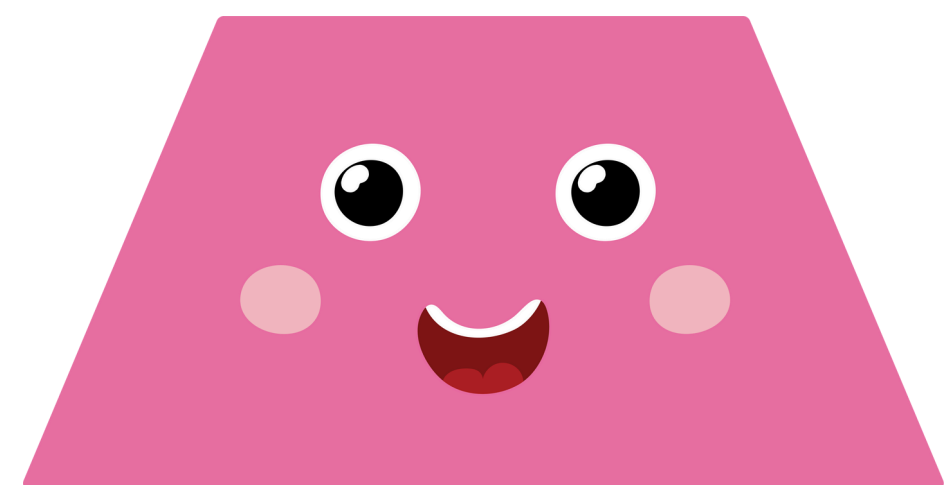
Example:
Some poker cards have a **diamond** shape on them.



Trapezoid

[ˈtræp.ɪ.zɔɪd] • noun

A 2D shape with 4 straight sides and 4 corners. It has one pair of sides that are parallel (go the same way), and the other two sides are not.



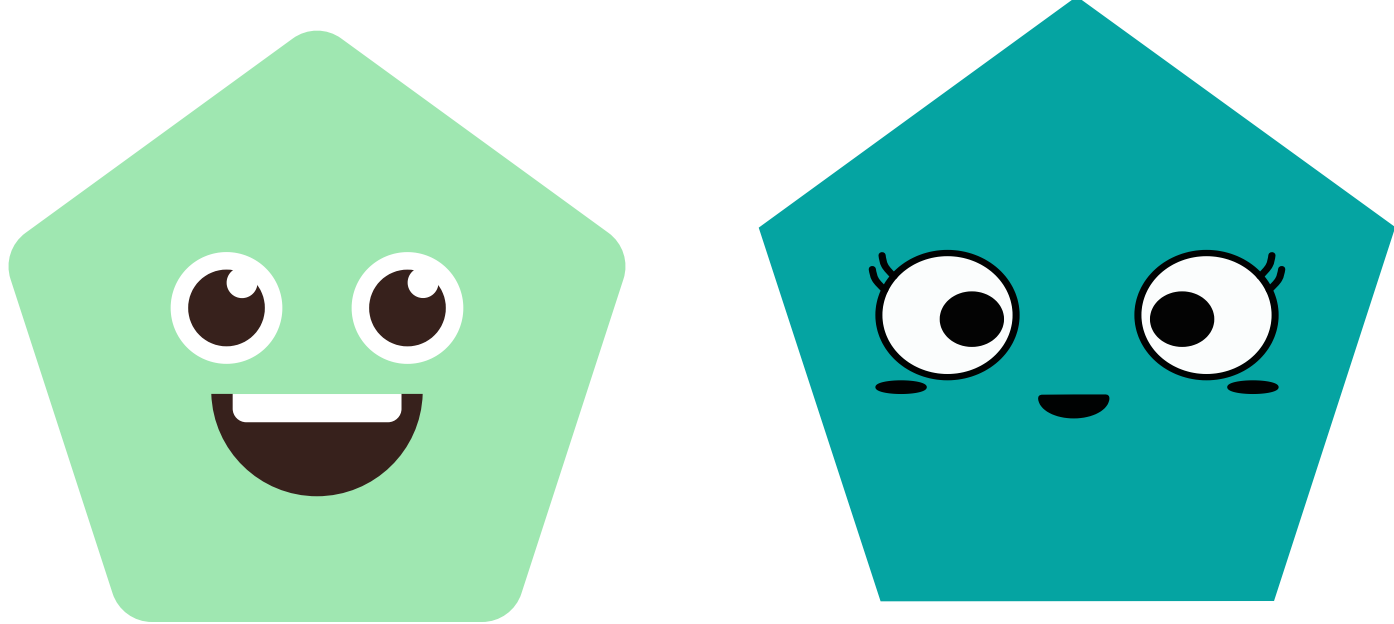
Example:
Some baskets, handbags, or tote bags are shaped like **trapezoids**.



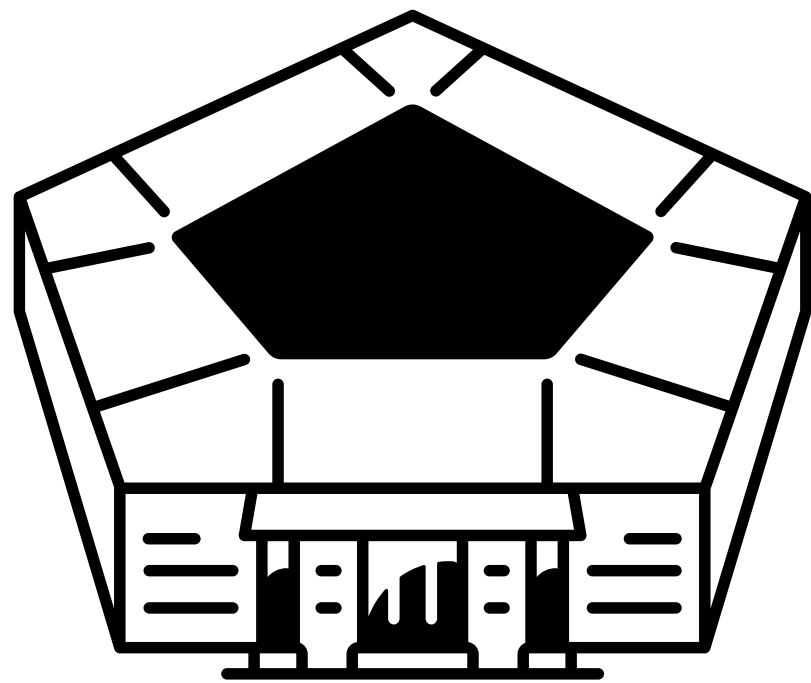
Pentagon

['pen.tə.gən] • noun

A 2D shape with 5 straight sides and 5 corners. It looks like a little house or badge, and all the lines connect to make a closed shape.



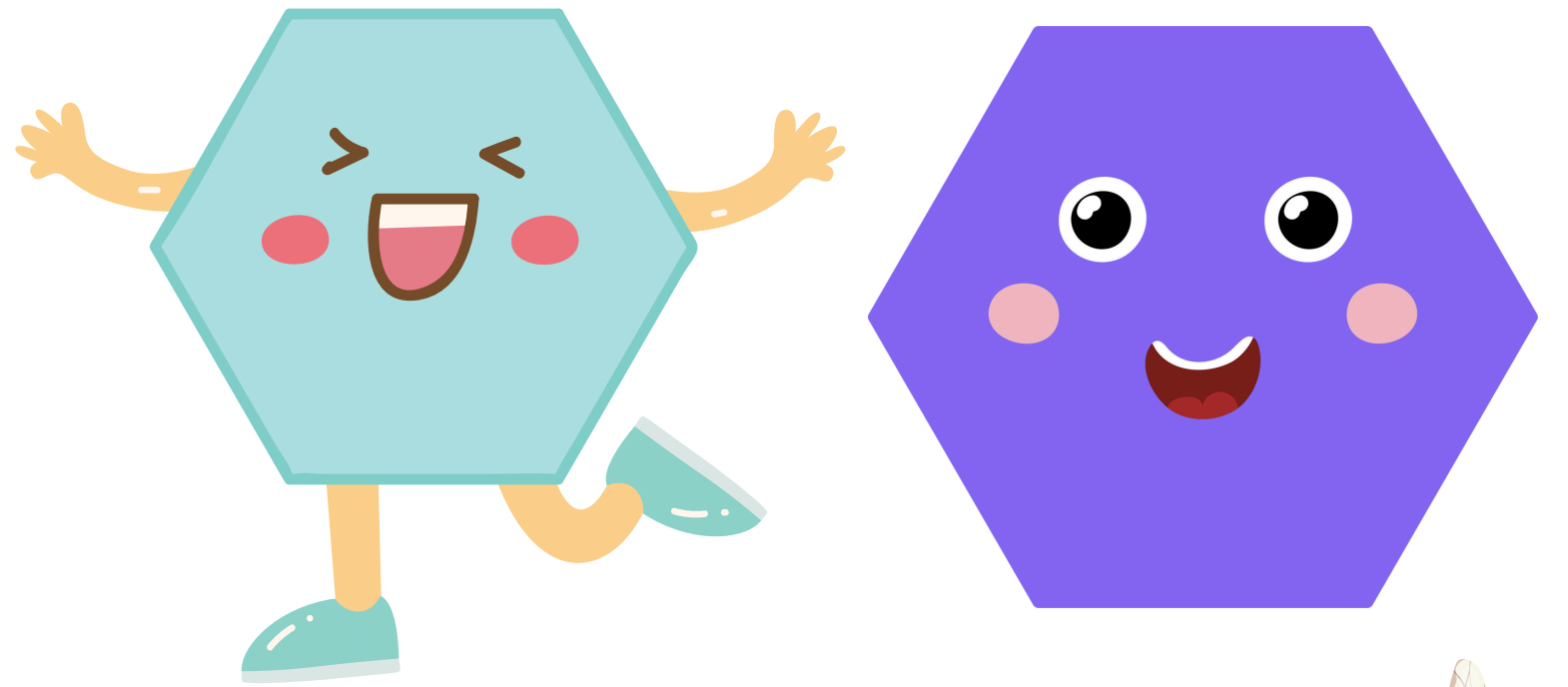
Example:
The **Pentagon**, located in Washington, D.C., is shaped like a **pentagon**.



Hexagon

['hek.sə.gən] • noun

A 2D shape with 6 straight sides and 6 corners.



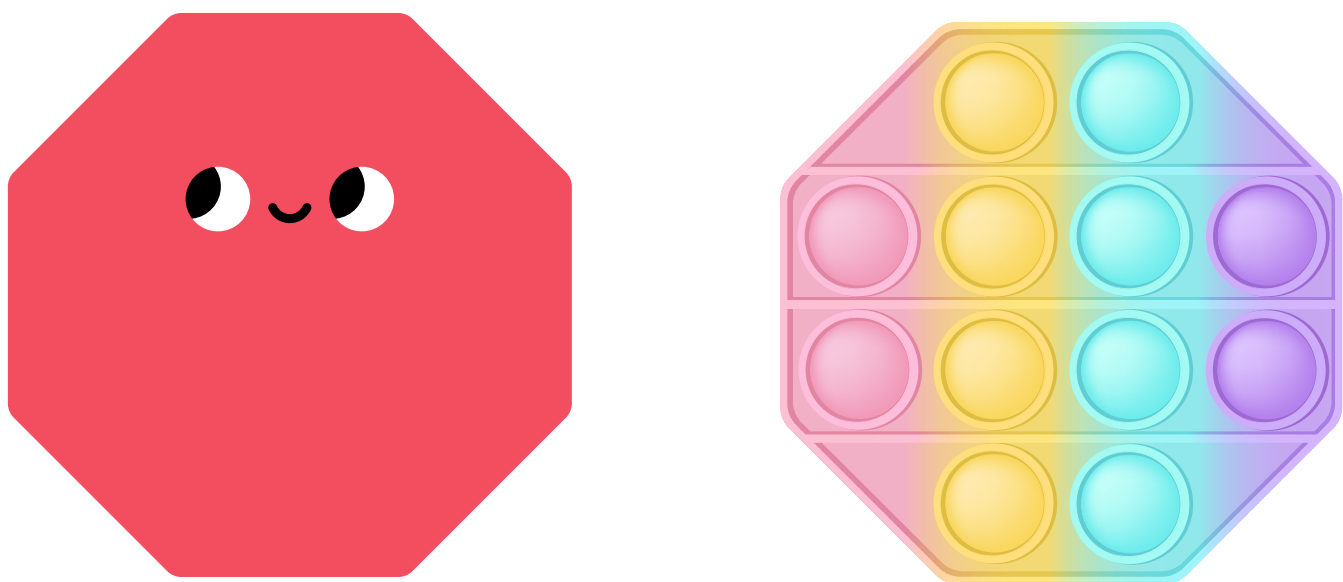
Example:
Some **hexagons** look like honeycomb cells in a beehive.



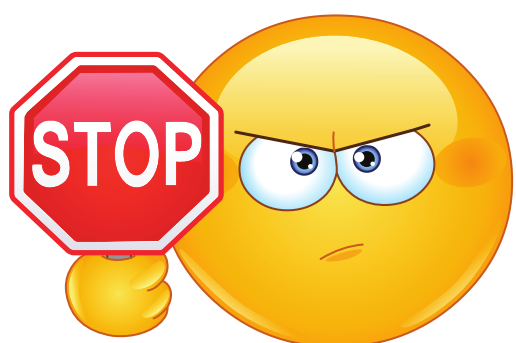
Octagon

['ɑ:k.tə.gən] • noun

A 2D shape with 8 straight sides and 8 corners, with all the sides connecting to make a round-looking shape.



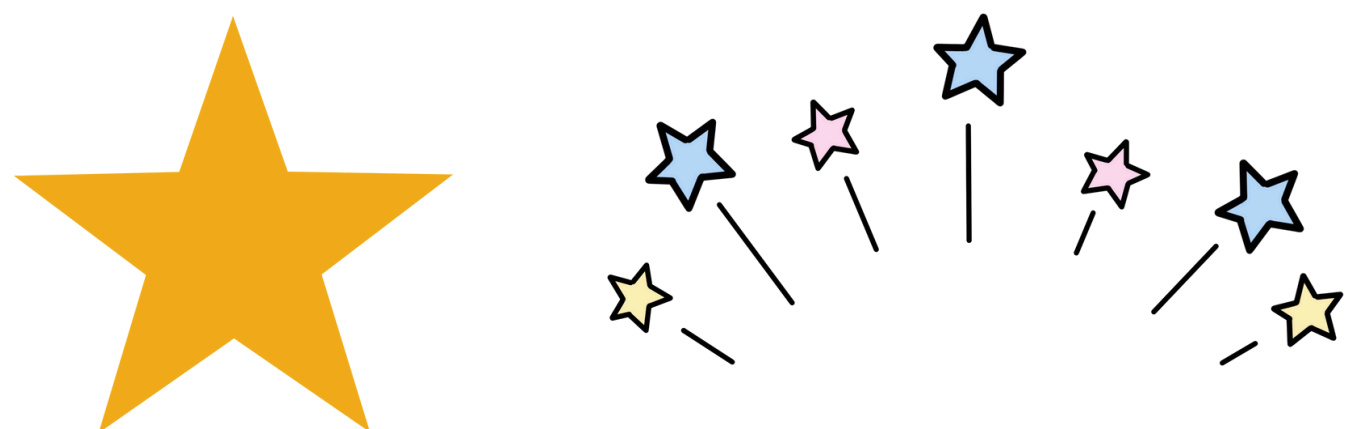
Example:
Octagon looks like a stop sign,



Star

[stɑ:r] • noun

A 2D shape with points that stick out like a shining light in the sky. Most stars have 5 points, 5 corners and 10 straight lines.



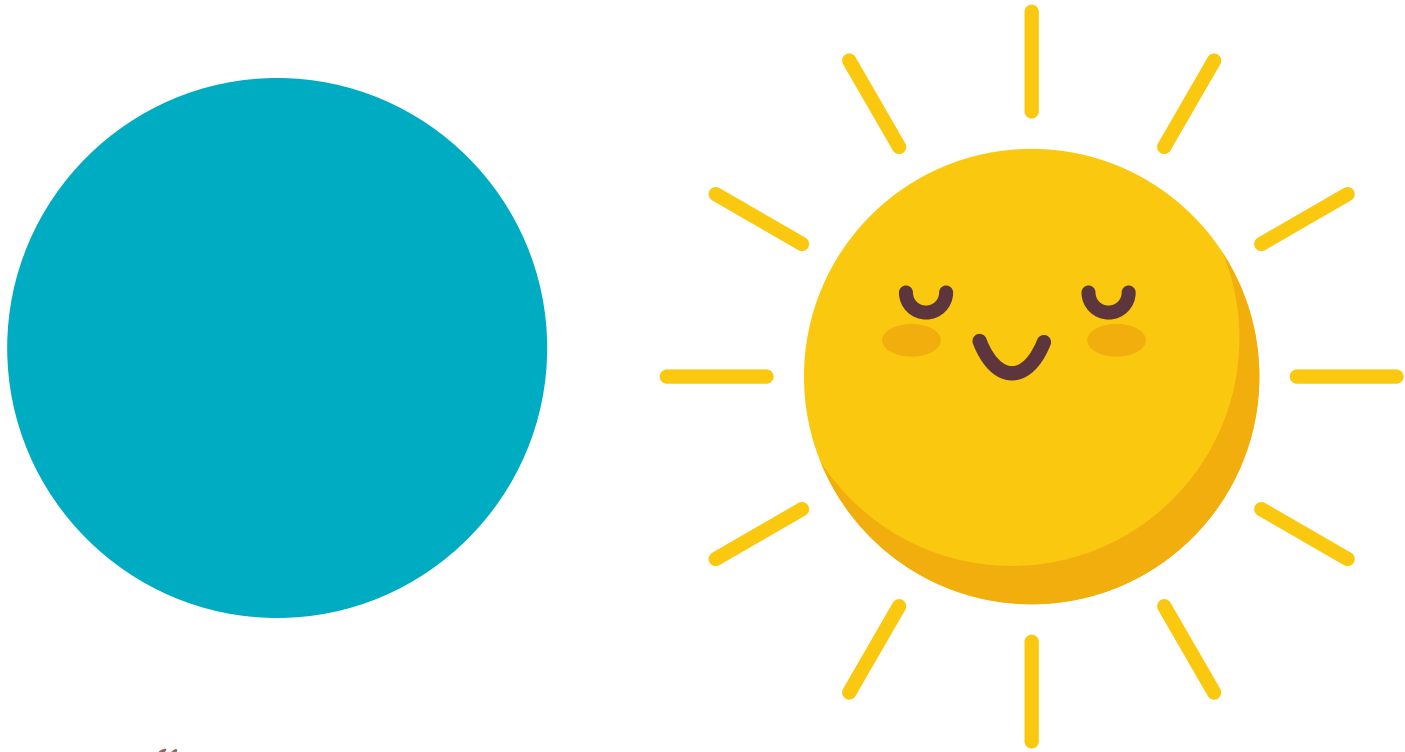
Example:
Many countries' flags feature **stars**.



Circle

['sɜː.kəl] • noun

A 2D shape that is round and has 0 corner, 0 sides, and 0 straight sides. Every point on a circle is the same distance from the center.



Example:
The whole pizza
is a big **circle**!



Semicircle

['sem.i.sɜː.kəl] • noun

A 2D shape that looks like half of a circle; has 1 curved side and 1 straight side, with 0 corners.



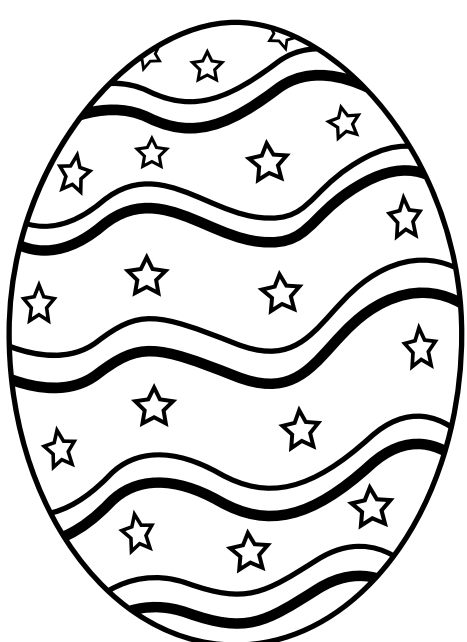
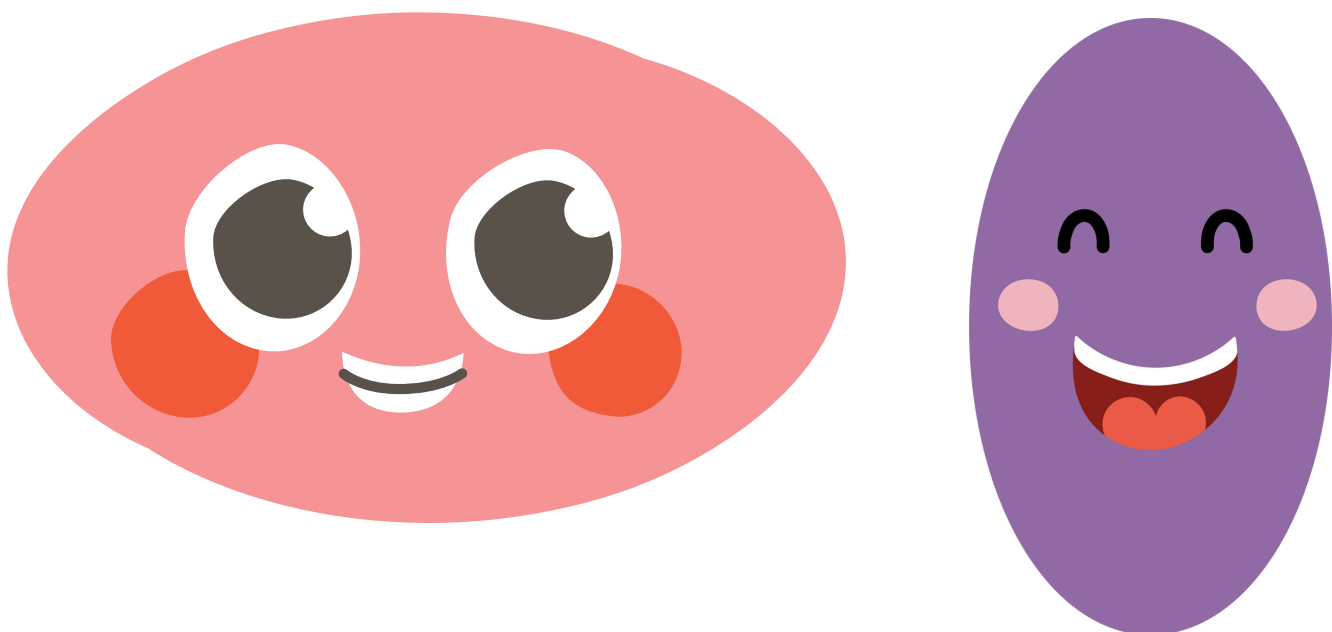
Example:
When the sun is halfway above the horizon,
it looks like a **semicircle**.



Oval

['oʊ.vəl] • noun

A 2D shape that looks like a stretched-out circle, kind of like an egg. It has 1 curved side, no corners, and no straight lines.



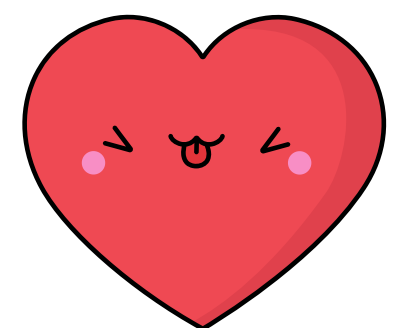
Example:
Easter eggs are
oval-shaped.



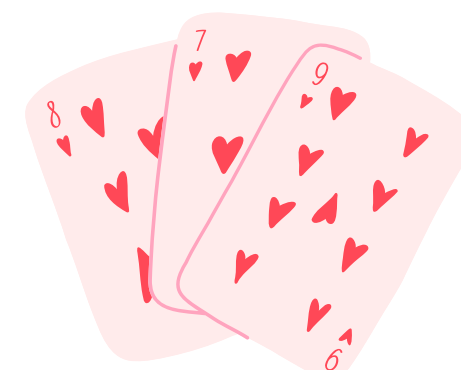
Heart

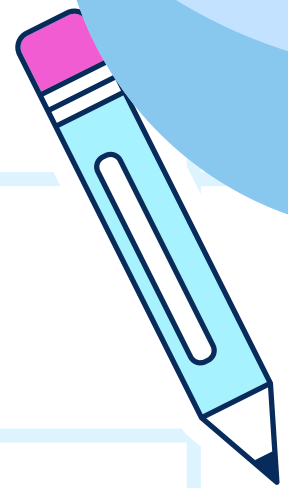
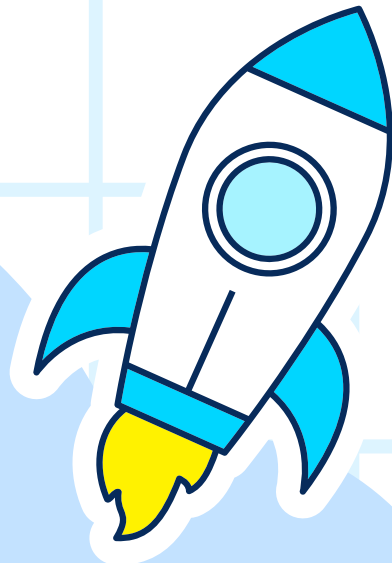
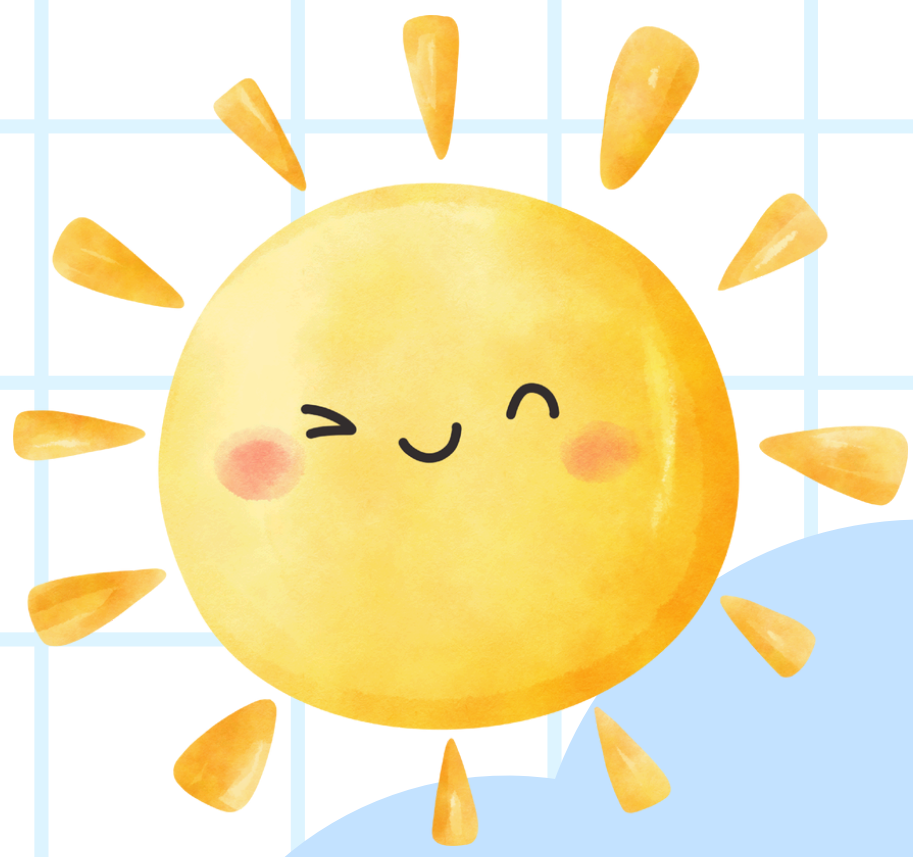
[hɑːrt] • noun

A 2D shape that looks like two bumps on top and a point at the bottom, often used to show love. It has 1 curved line, 1 point at the bottom, and no straight sides.

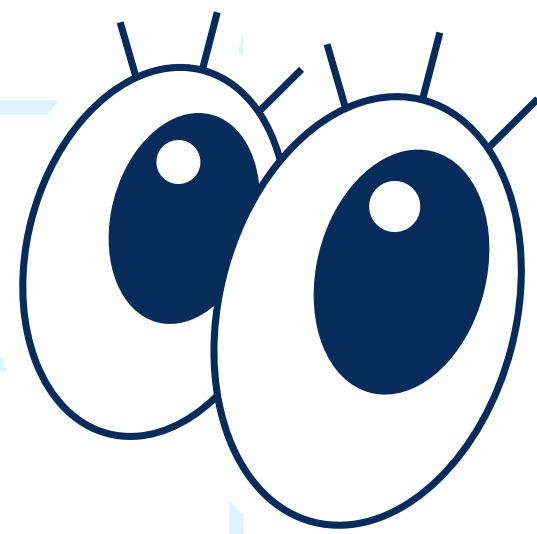


Example:
Hearts are everywhere in life!





DICTIONARY NINE



THREE-DIMENSIONAL SHAPES (3D SHAPES)



Try this

- Look at the key words and the picture.
- Read the example sentence out loud.
- Imagine the story and relate it to your life.



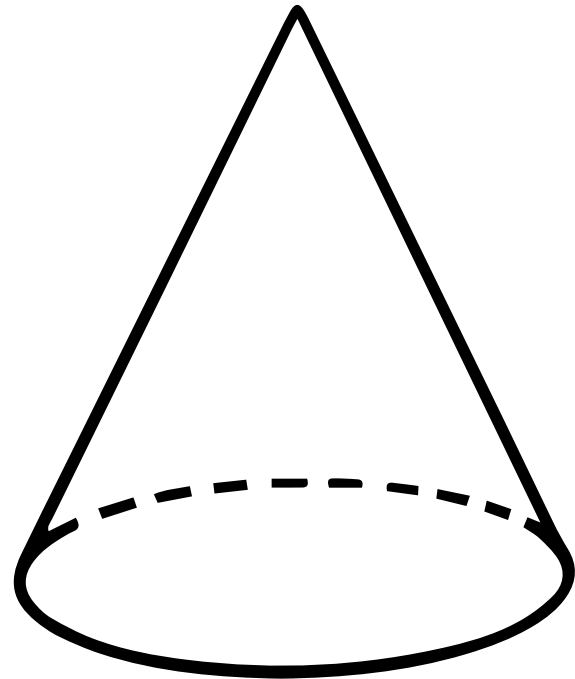
Contact Event Assistant for
more learning resources!



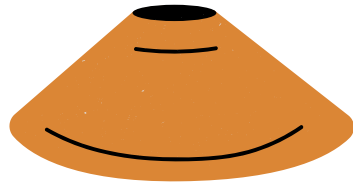
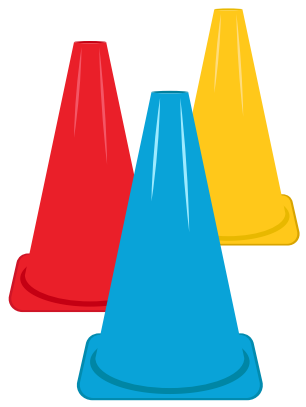
Cone

[kʊn] • noun

A solid 3D shape with 1 flat circular face, 1 curved surface, and 1 vertex (point at the top).



Example:
Ice cream **cones** are shaped like **cones**.

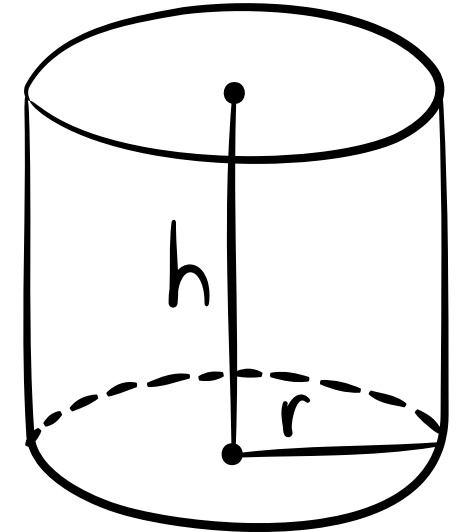
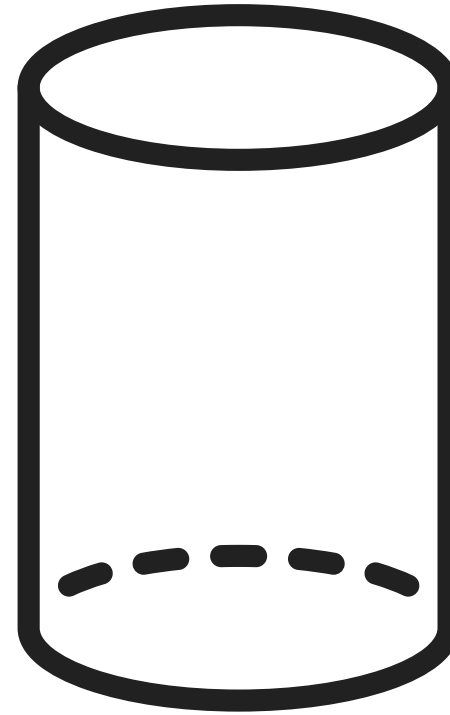


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Cylinder

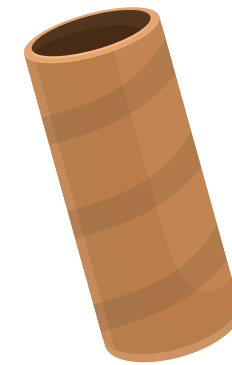
['sɪ.lɪn.də] • noun

A solid 3D shape with 2 flat circular faces, 1 curved surface, and no corners or vertices.



$$V = \pi r^2 h$$

Example:
Candles are shaped like **cylinders**.

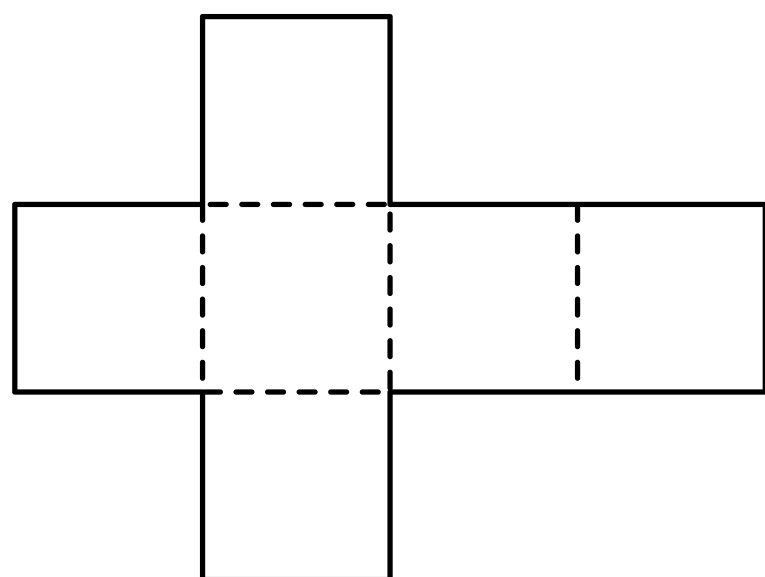
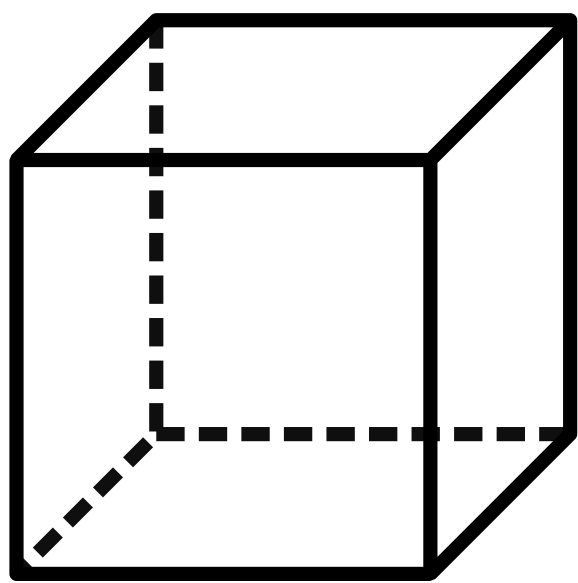


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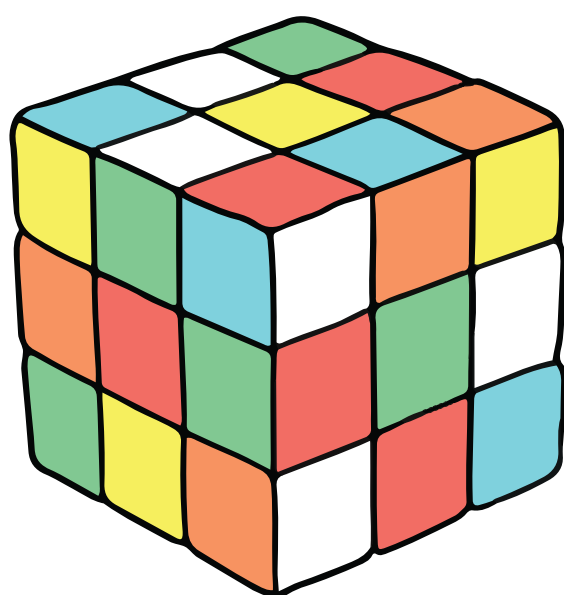
Cube

[kjuːb] • noun

A solid 3D shape with 6 flat square faces, 12 straight edges, and 8 vertices, all sides the same length.



Example:
A die is a **cube**.
A Rubik's cube is also a **cube**.

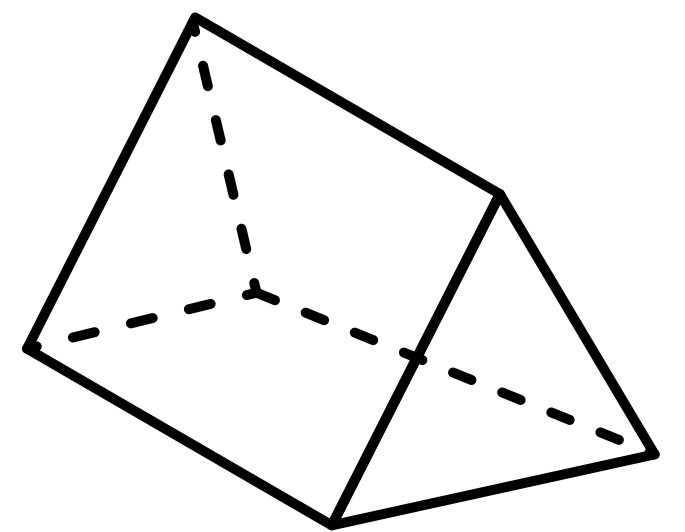
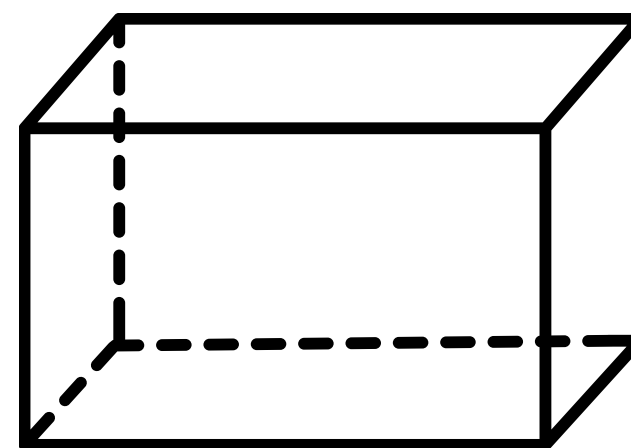


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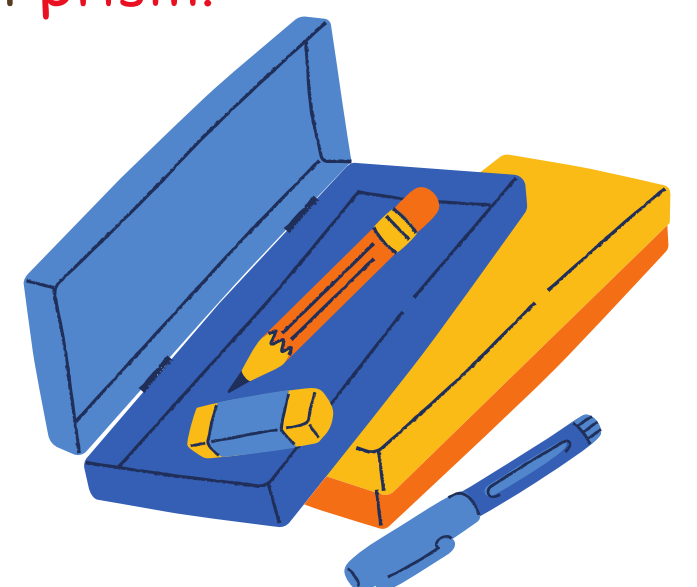
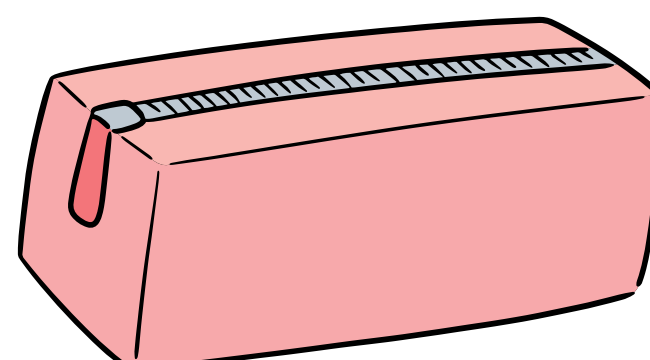
Prism

['prɪz.əm] • noun

A solid 3D shape with two flat faces (called bases) that are the same shape and size and lie on opposite sides. All other faces are rectangles.



Example:
Pencil cases are the shape of **prism**.

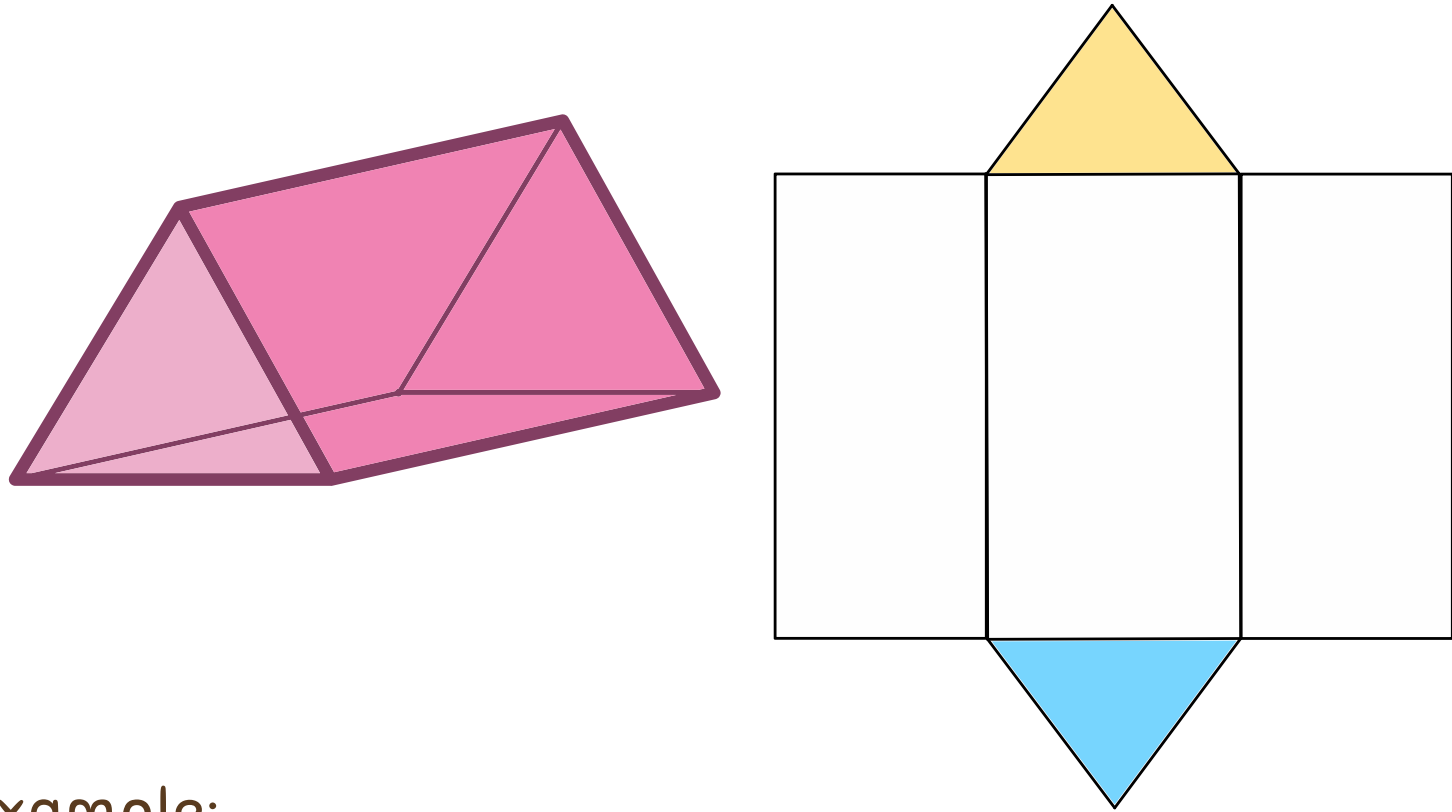


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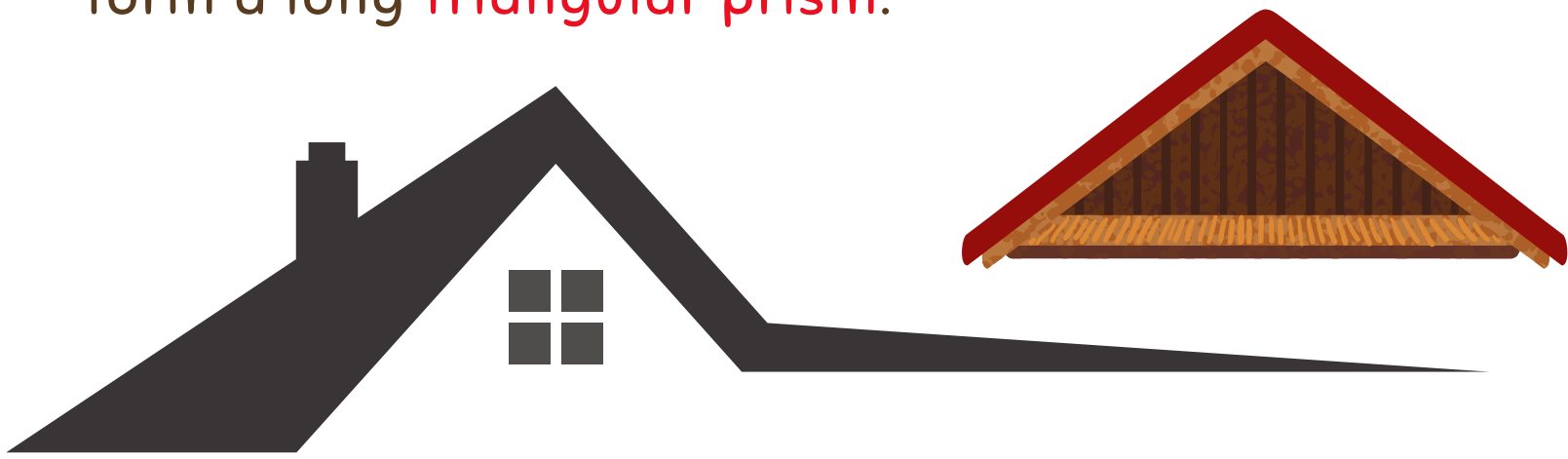
Triangular Prism

[traɪˈæŋ.gjə.lər ˈprɪz.əm] • phrase

A solid 3D shape with 2 flat triangle faces, 3 flat rectangular faces, 9 edges, and 6 vertices.



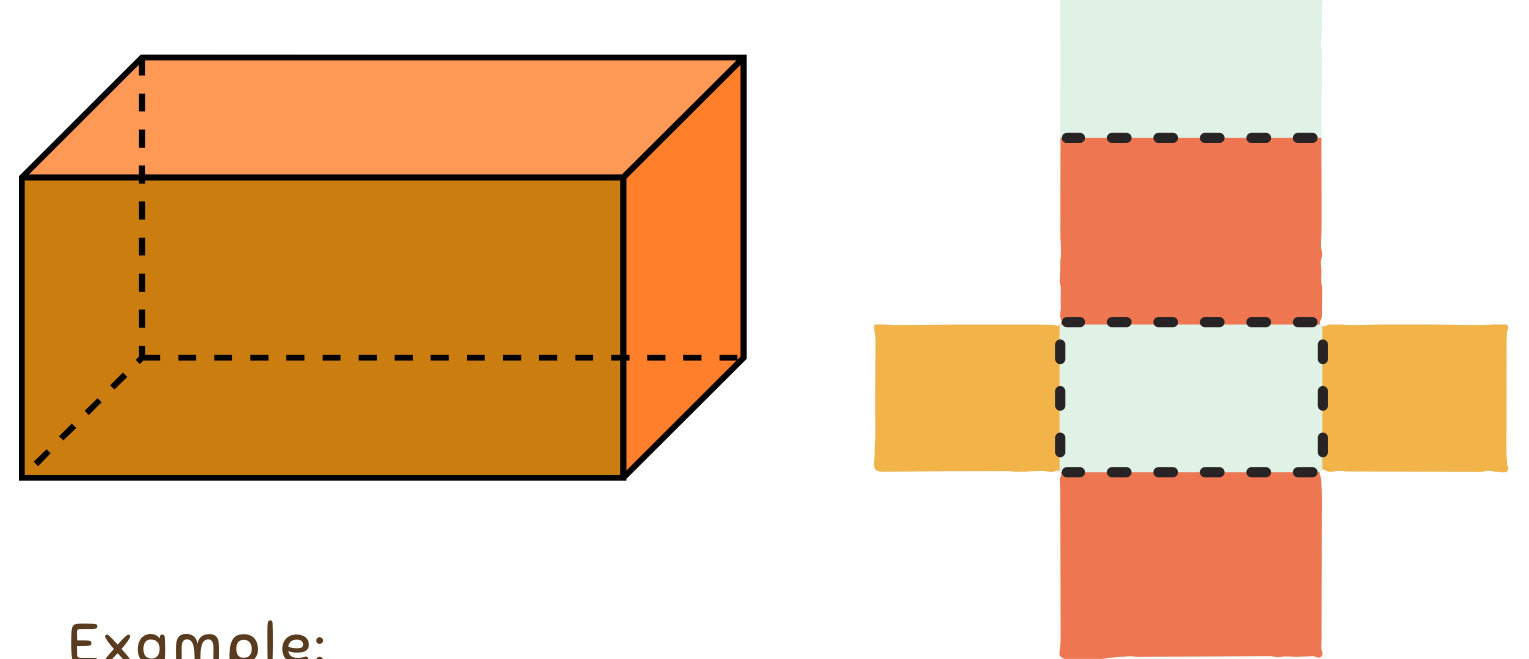
Example:
Some rooftops (Roof of a house) form a long **triangular prism**.



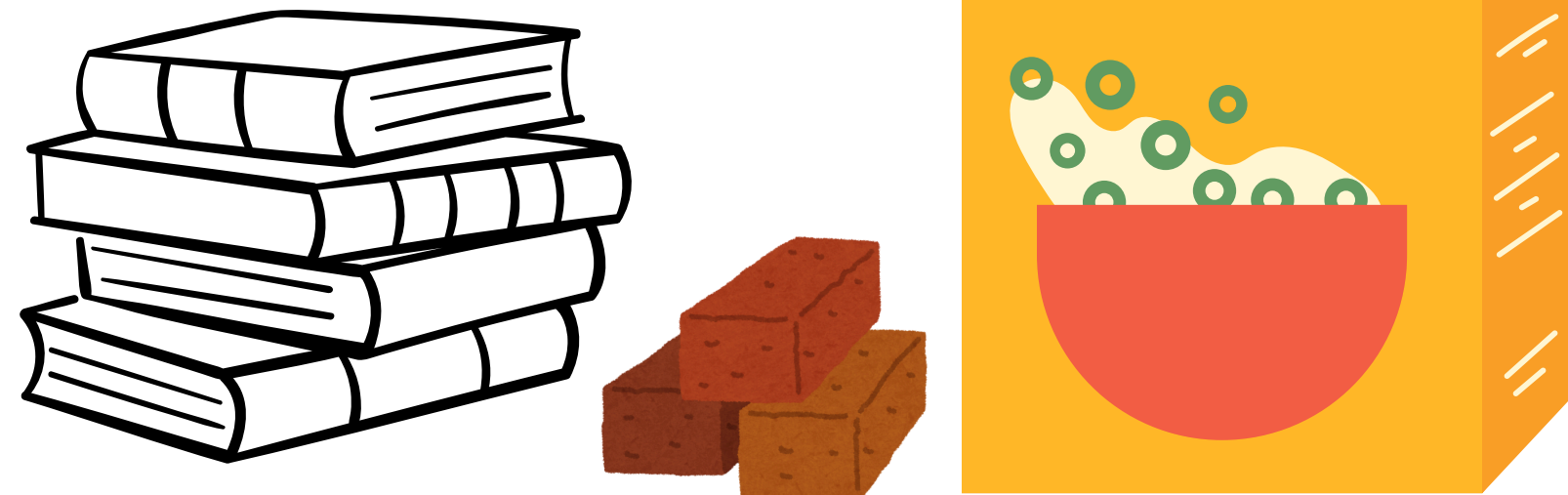
Rectangular Prism

[rekˈtæŋ.gjə.lər ˈprɪz.əm] • phrase

A solid 3D shape with 6 flat rectangular faces, 12 straight edges, and 8 vertices.



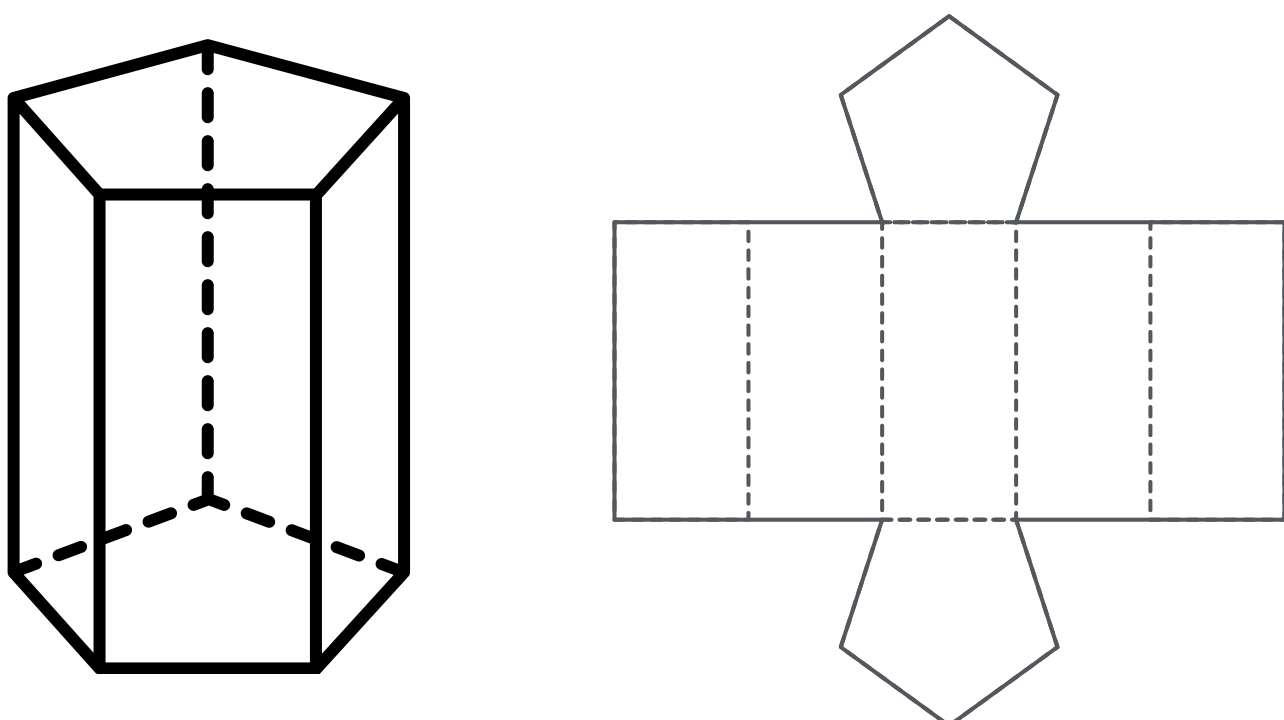
Example:
Books, bricks, and cereal boxes are all the shapes of **rectangular prism**.



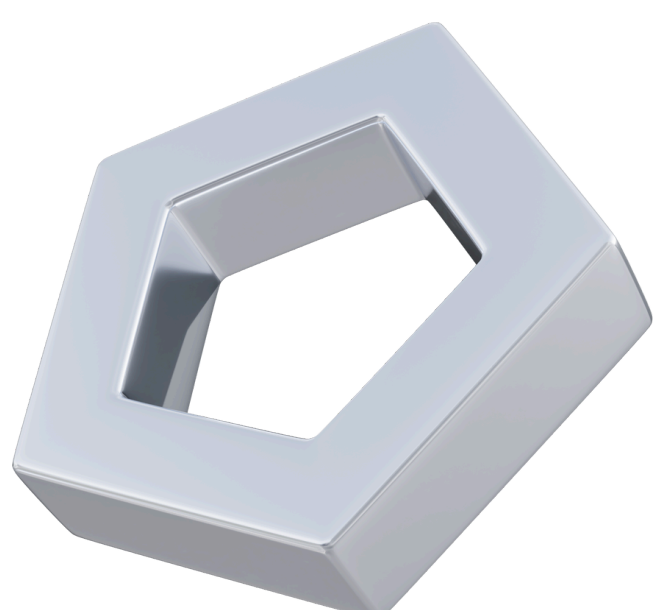
Pentagonal Prism

[ˈpen.tə.gən.əl ˈprɪz.əm] • phrase

A solid 3D shape with 2 flat pentagon faces, 5 flat rectangular faces, 15 edges, and 10 vertices.



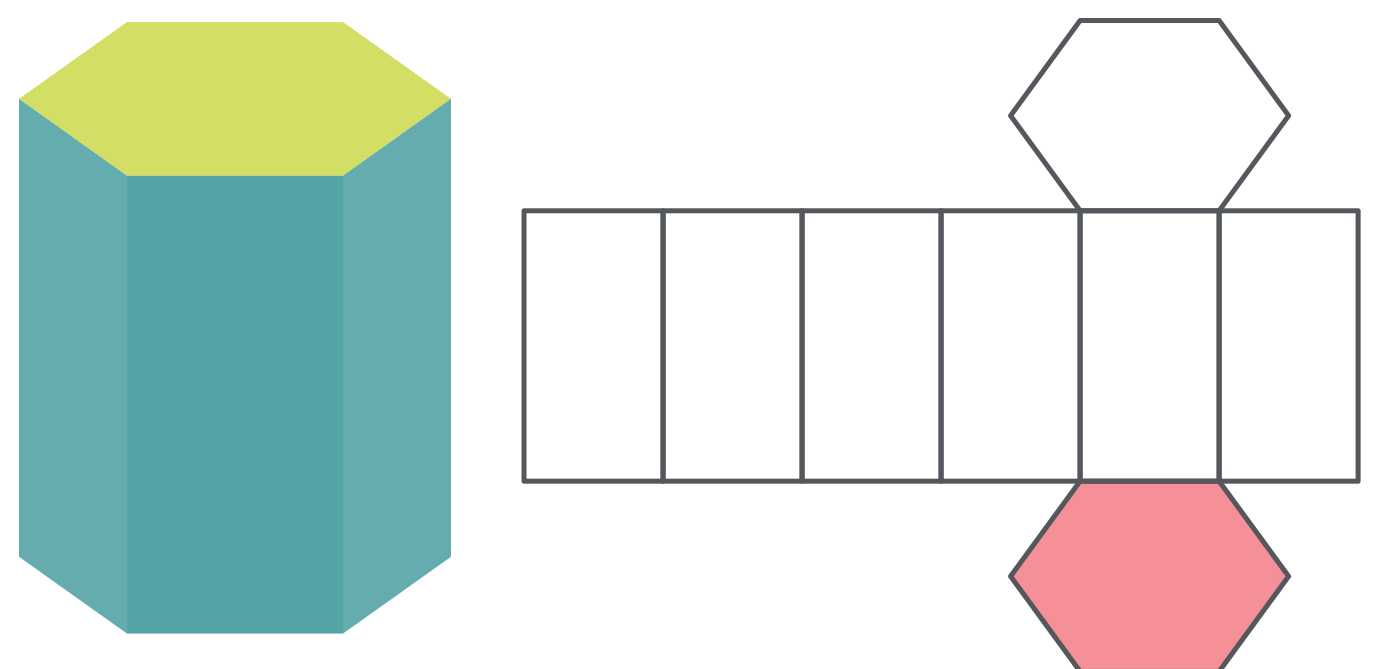
Example:
Some screw caps are **pentagonal prisms**.



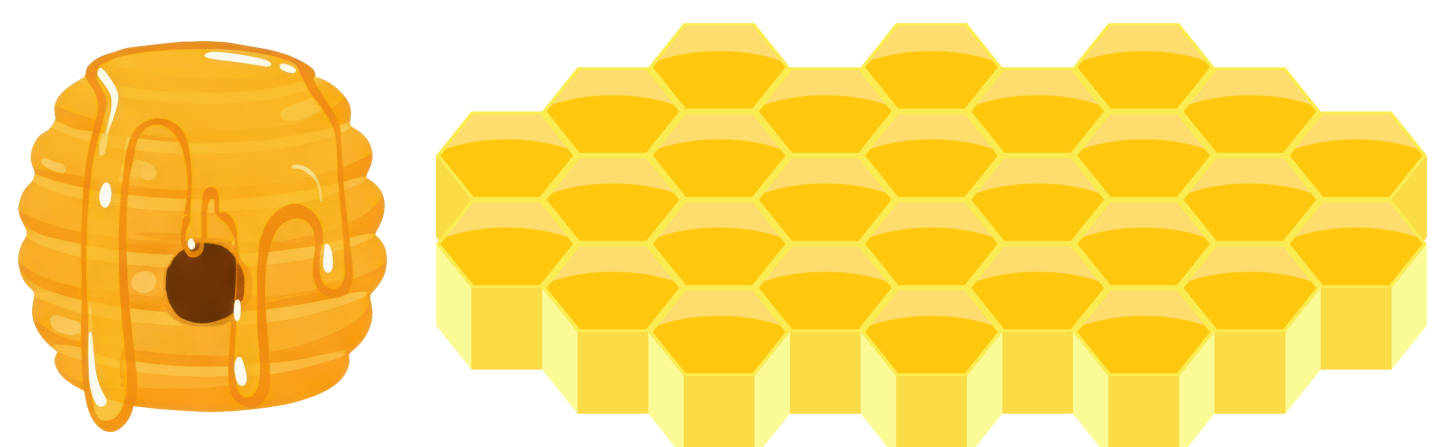
Hexagonal Prism

[hekˈsæɡ.ən.əl ˈprɪz.əm] • phrase

A solid 3D shape with 2 flat hexagon faces, 6 flat rectangular faces, 18 edges, and 12 vertices.



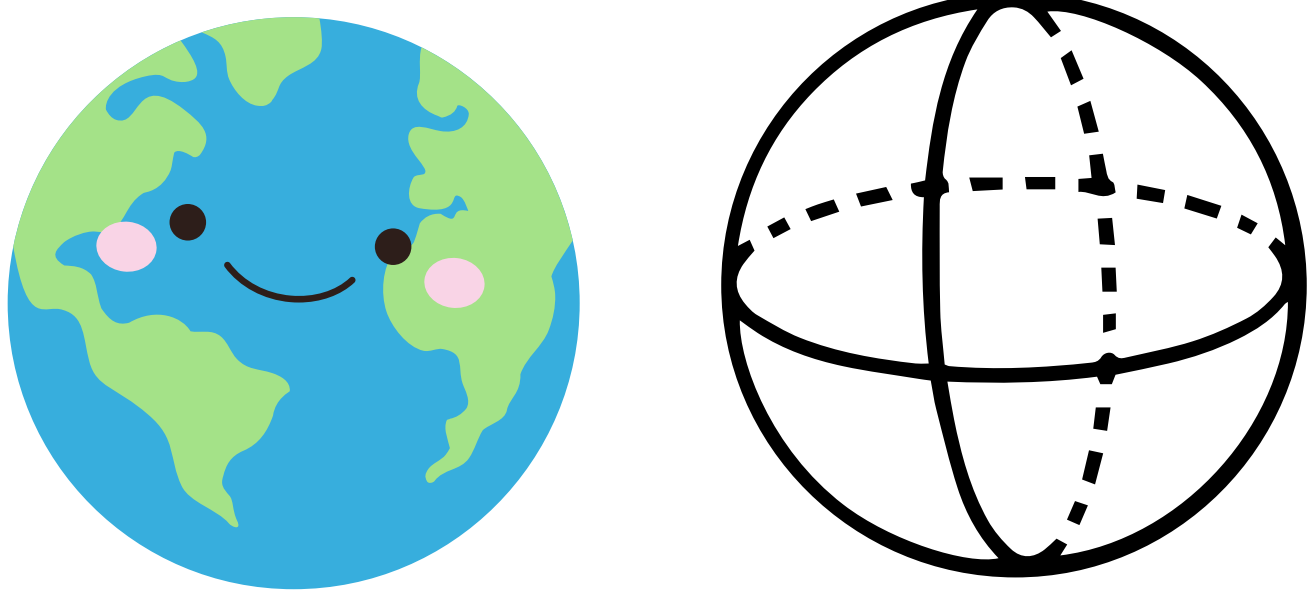
Example:
The tubes inside a beehive are shaped like stacked **hexagonal prisms**.



Sphere

[sfɪr] • noun

A solid 3D shape with one curved surface, no flat faces, no edges, and no corners (vertices)—it is round like a ball.



Example:

Many balls used in ball games are **spheres**.

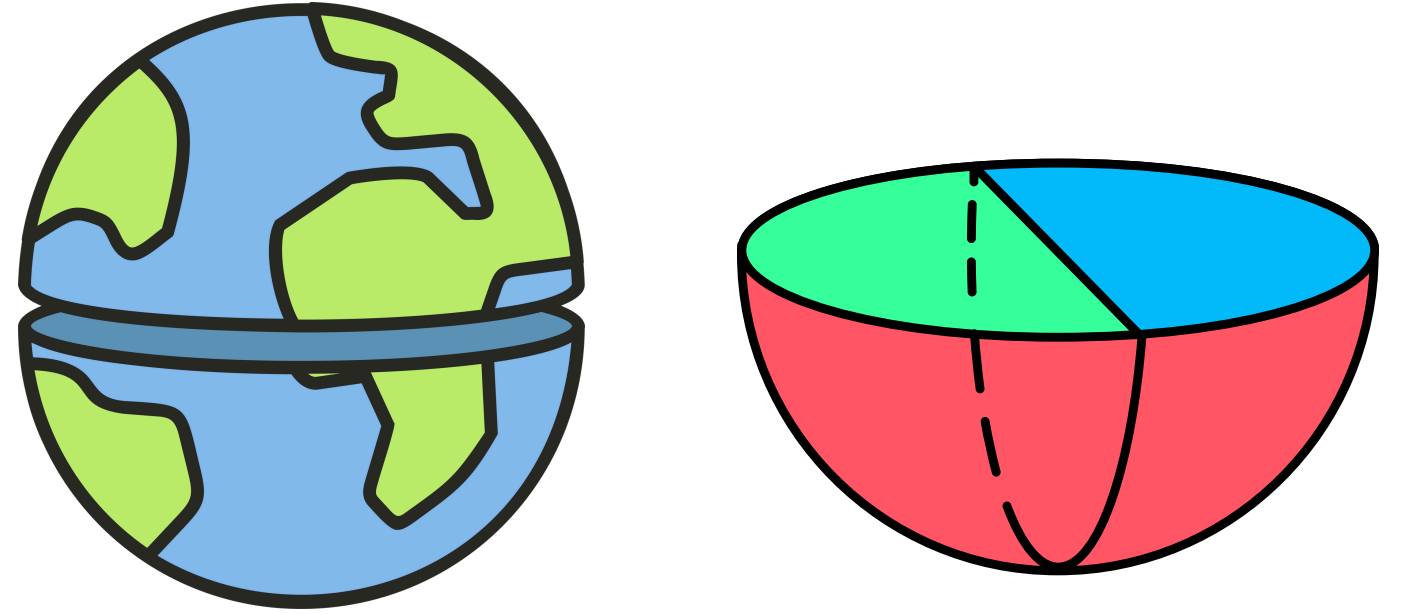


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Hemisphere

['hem.ə.sfɪr] • noun

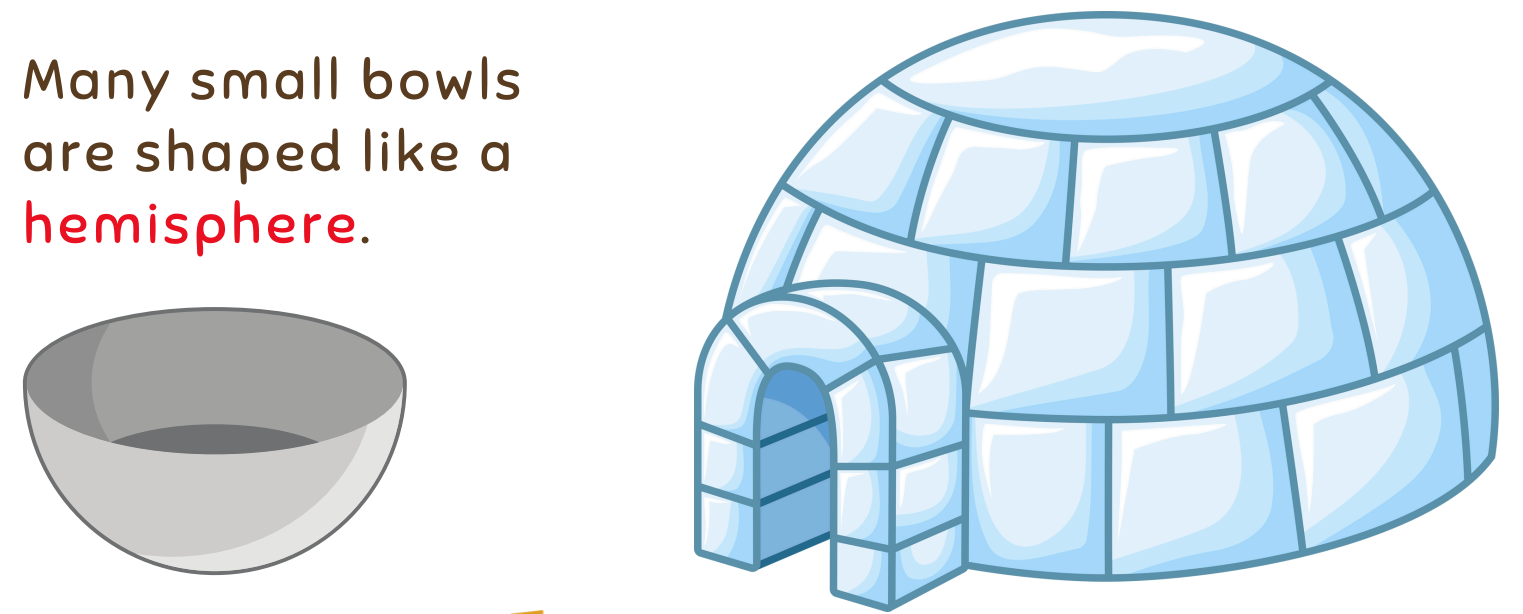
A solid 3D shape with one flat circular face and one curved surface, like half of a sphere, with no edges or corners (vertices).



Example:

The dome shape of an igloo looks like a **hemisphere**.

Many small bowls are shaped like a **hemisphere**.



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Ellipsoid

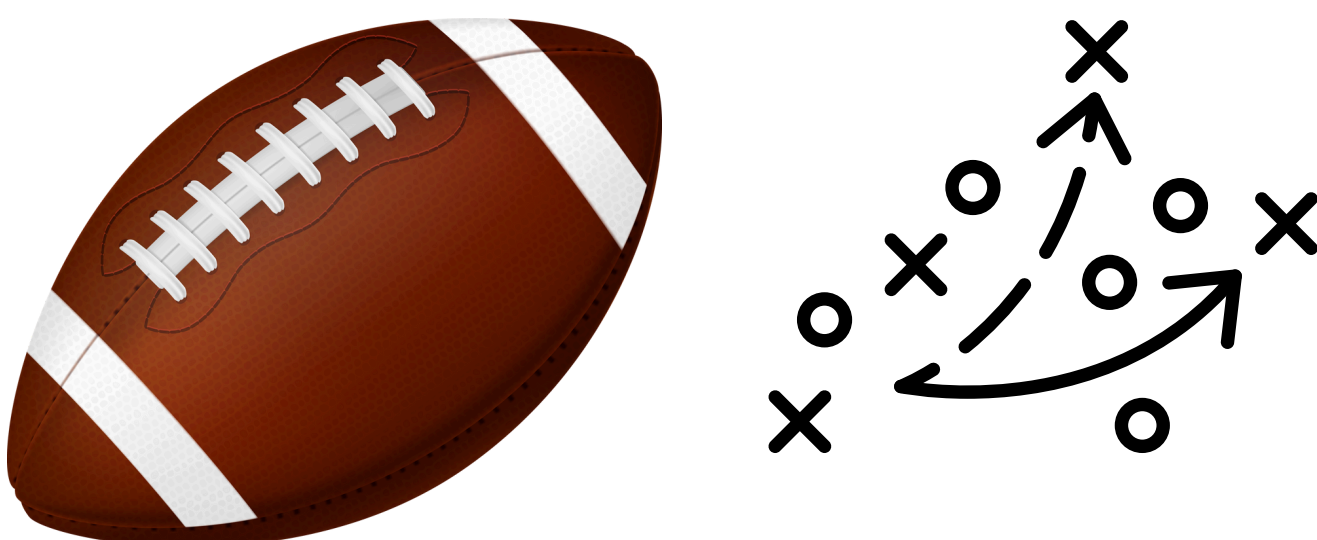
[ɛlɪpsɔɪˈt] • noun

A solid 3D shape with one smooth curved surface, no flat faces, no edges, and no corners (vertices)—it looks like a stretched or squished sphere, like an egg.



Example:

Rugby or American football have an elongated **ellipsoid** shape.

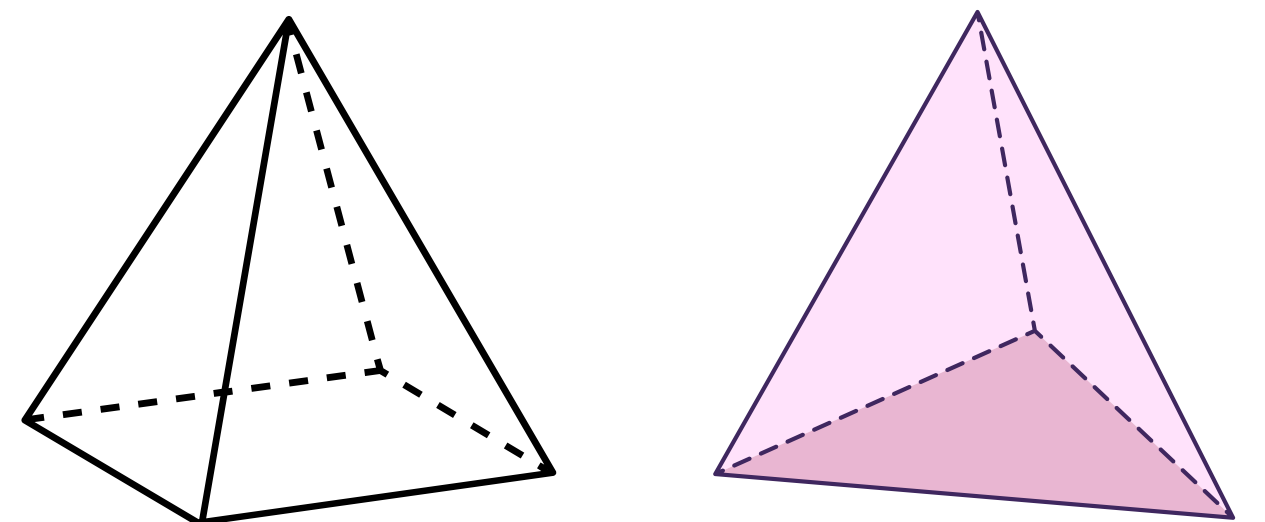


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Pyramid

['pɪr.ə.mɪd] • noun

A solid 3D shape with one flat base and triangular faces that meet at a point. It has straight edges and flat surfaces.



Example:

The **pyramids** of Egypt are **pyramids**.

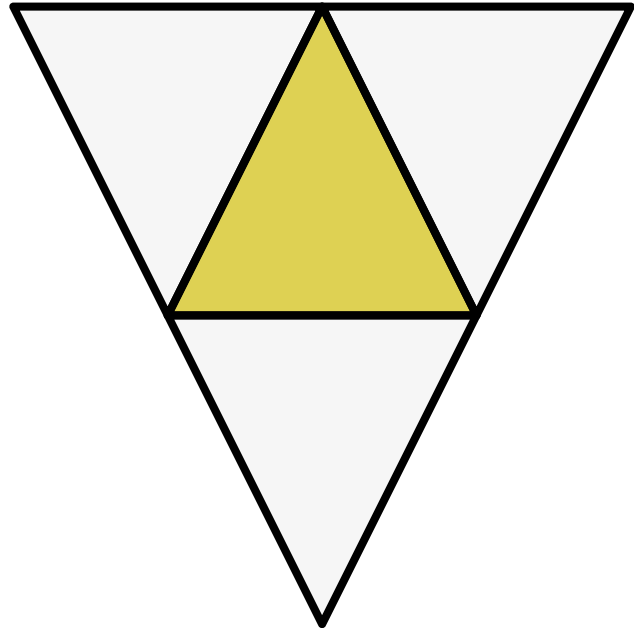
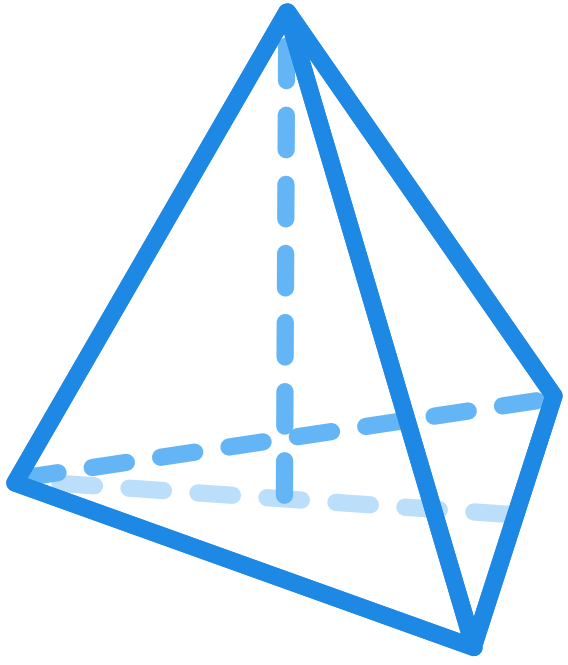


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Triangular Pyramid

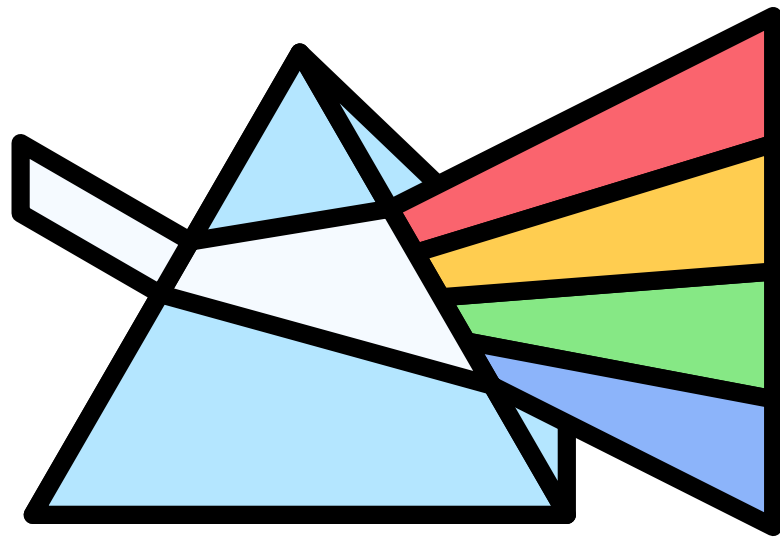
[traɪˈæŋ.gjə.lər ˈpɪr.ə.mɪd] • phrase

A solid 3D shape with 4 flat triangle faces, 6 straight edges, and 4 vertices, with all faces shaped like triangles.



Example:

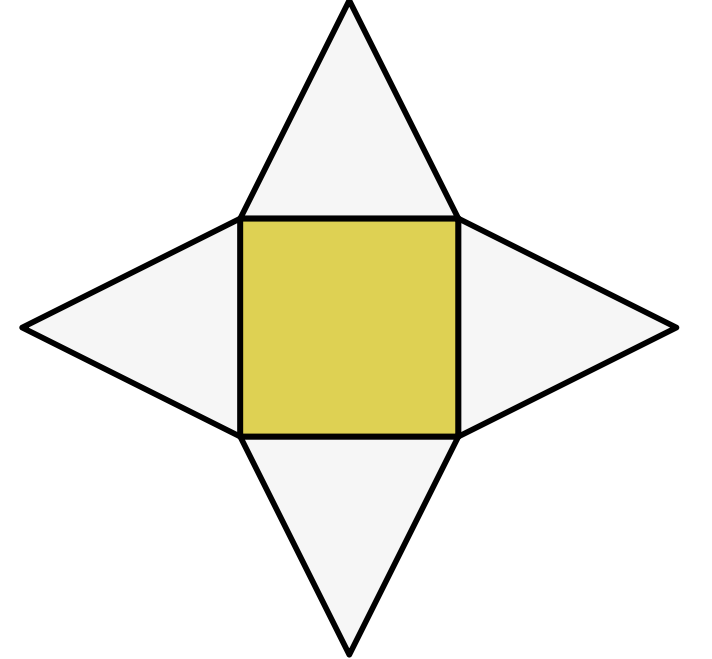
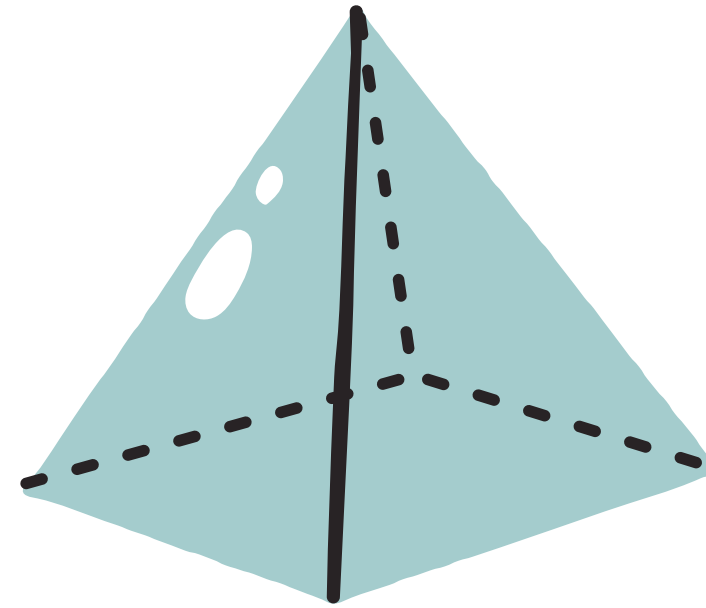
A **triangular pyramid** looks like the glass used in everyday life to break light into a rainbow, just like in a science experiment or when sunlight passes through crystal.



Rectangular Pyramid

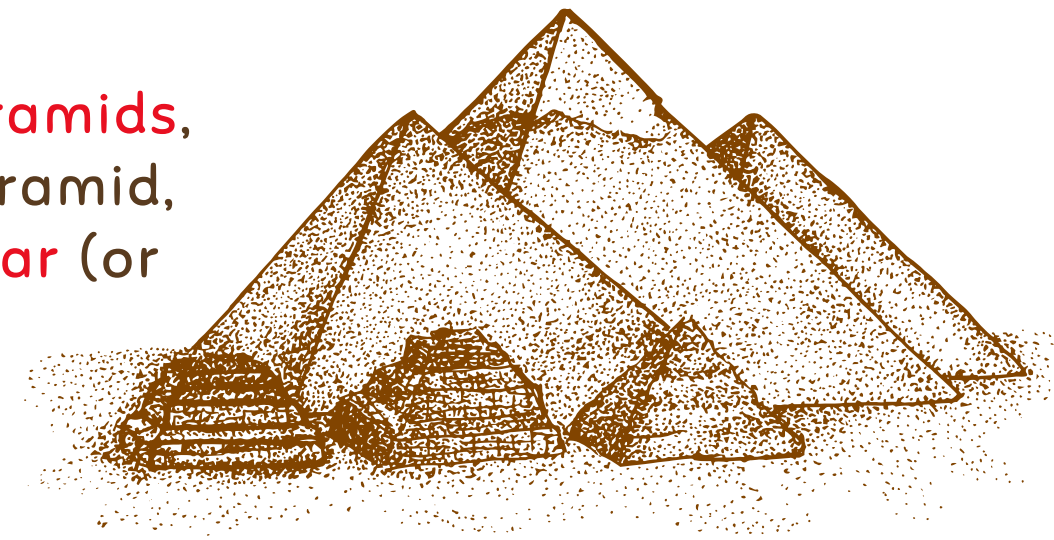
[rekˈtæŋ.gjə.lər ˈpɪr.ə.mɪd] • phrase

A solid 3D shape with 1 flat rectangular base, 4 flat triangle faces, 8 straight edges, and 5 vertices that meet at the top point.



Example:

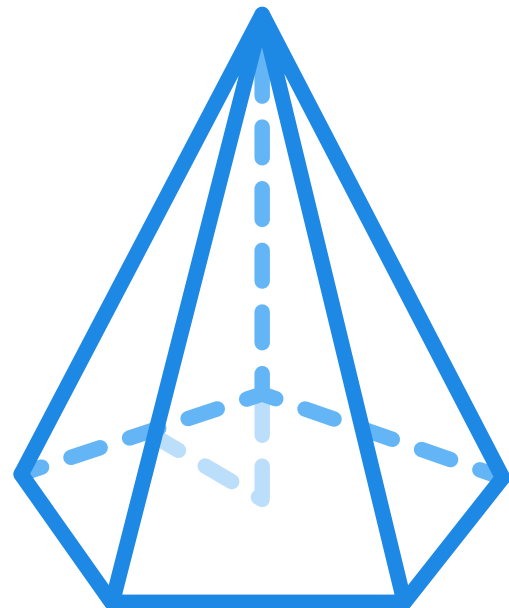
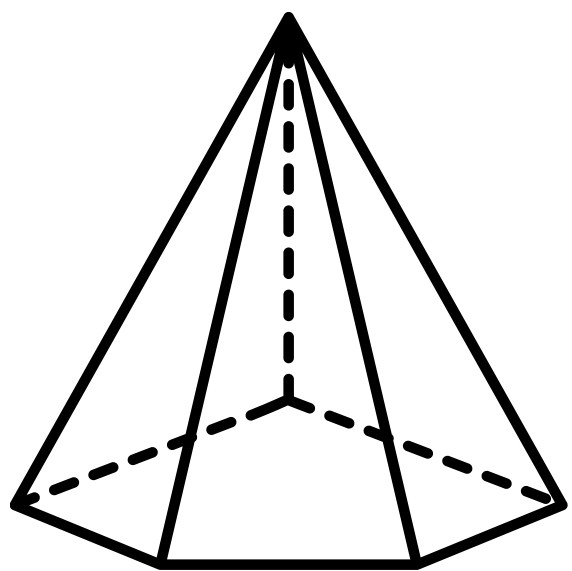
Many famous **pyramids**, like the Great Pyramid, have a **rectangular** (or square) base.



Pentagonal Pyramid

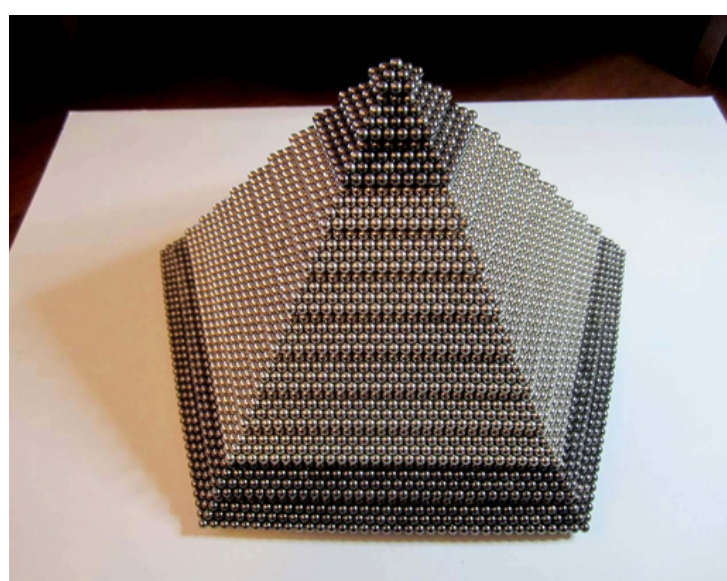
[ˈpen.tə.gən.əl ˈpɪr.ə.mɪd] • phrase

A solid 3D shape with 1 flat pentagon base, 5 flat triangle faces, 10 straight edges, and 6 vertices that all meet at one top point.



Example:

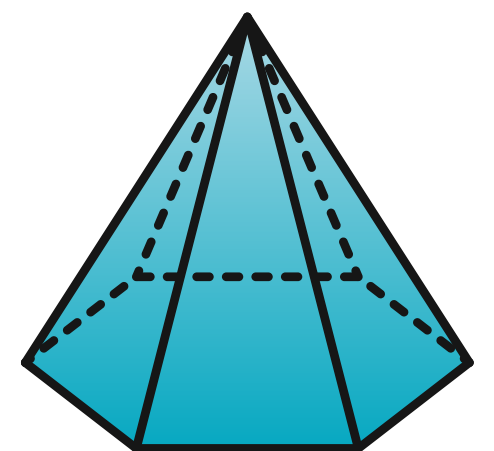
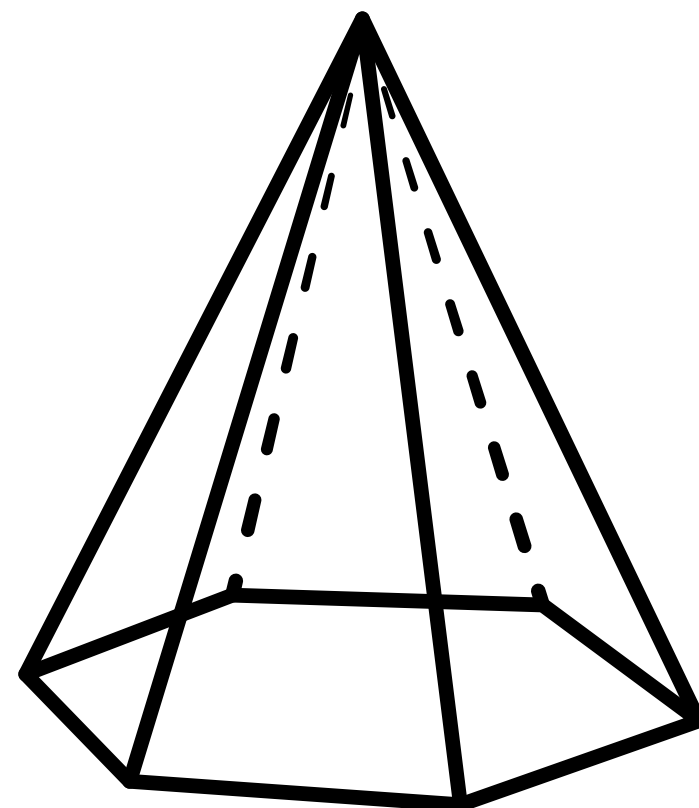
Certain buildings or rooftops use unique **pentagonal pyramid** shapes for style.



Hexagonal Pyramid

[hekˈsæɡ.ən.əl ˈpɪr.ə.mɪd] • phrase

A solid 3D shape with 1 flat hexagon base, 6 flat triangle faces, 12 straight edges, and 7 vertices that meet at the top point.



Example:

Some decorative stones or gems are cut into **hexagonal pyramid** shapes.

