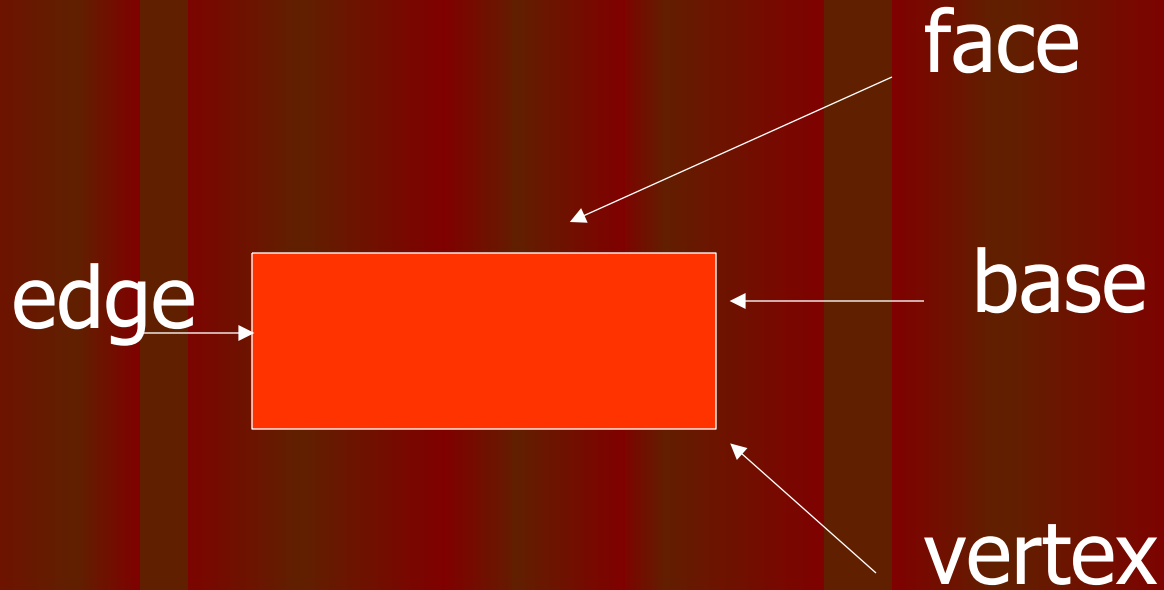


Three-dimensional figures are **not** flat figures. They have length, width, and height. They are also called **solid geometric figures**.

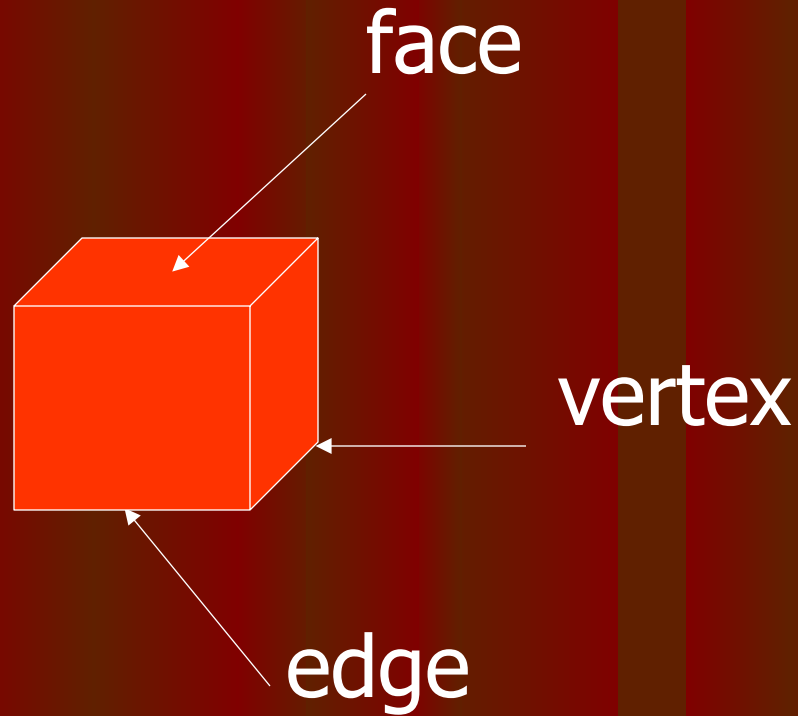
- The flat surfaces of three-dimensional figures are called faces.
- The faces meet at edges.
- The edges are line segments.
- The edges meet at vertices (plural of vertex).

# Rectangular prism



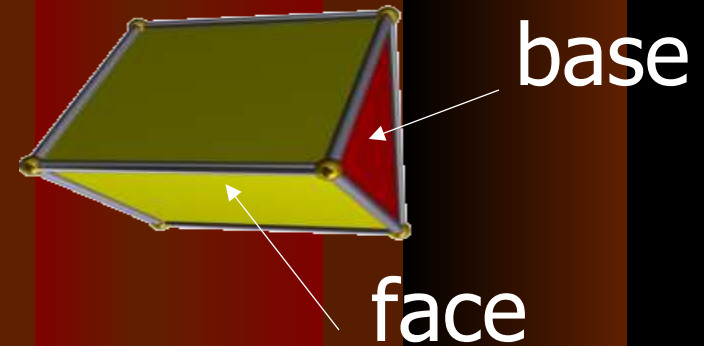
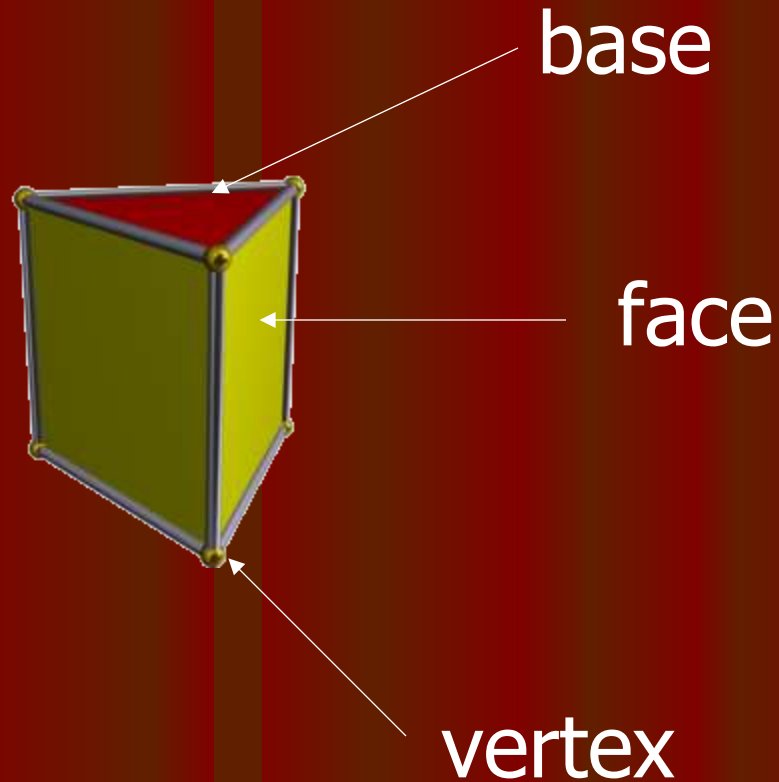
A rectangular prism has 6 faces, 8 vertices, and 12 edges.

# cube



A cube, just like a rectangular prism, has 6 faces (all squares), 8 vertices, and 12 edges.

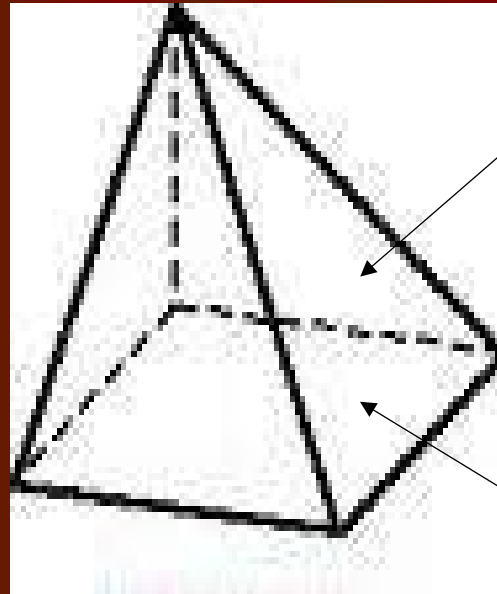
# Triangular prism



Clarification mdk12

A triangular prism has five faces. Its base is a triangle.  
**(Notice that even when the triangular prism sits on a rectangle, the base is still a triangle.)** Two of its faces are triangles; three of its faces are rectangles. It has six vertices and nine edges.

# Rectangular pyramid



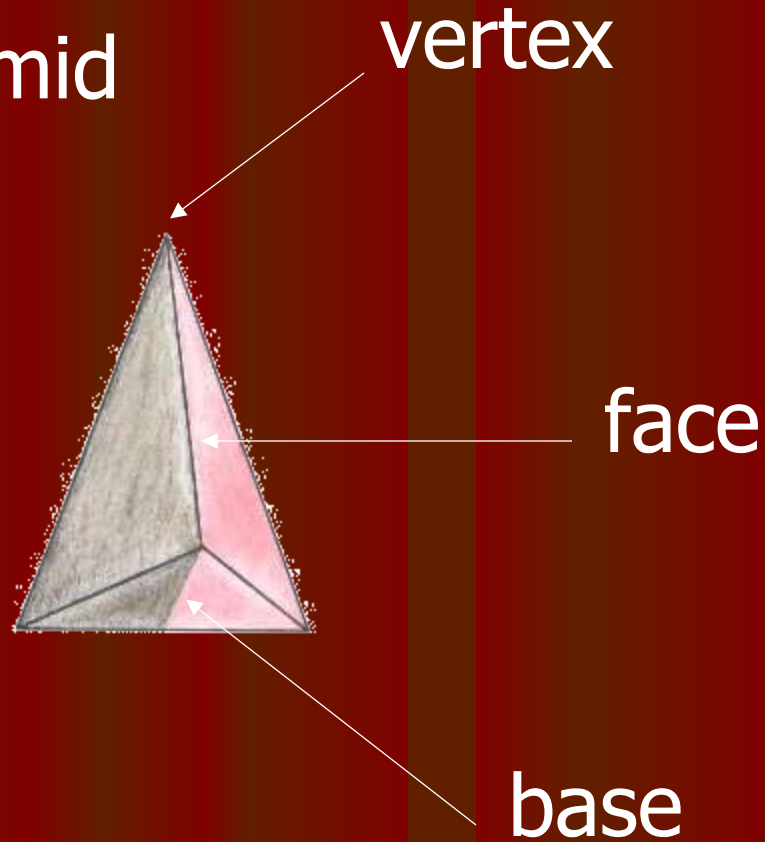
face

vertex

base

A rectangular pyramid has 5 faces. Its base is a rectangle or a square and the other 4 faces are triangles. It has 8 edges and 5 vertices.

# Triangular pyramid



A triangular pyramid has four faces. All faces, including its base, are triangles. It has six edges and four vertices.

Now it's your turn!

# What is the name of a three-dimensional figure with six square faces?

- pyramid
- ✓ ● cube
- solid
- edge

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								



I am a three-dimensional figure with five faces. My base is a rectangle; my other faces are triangles. I have five vertices and eight edges. What am I?

- rectangle prism
- ✓ ● rectangular pyramid
- triangular prism
- triangular pyramid

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

# How many edges does a square pyramid have?

- ☐ 4
- ☐ 5
- ☐ 7
- ☒ 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

# How many vertices does a rectangular prism have?

- ☐ 12
- ☒ 8
- ☐ 6
- ☐ 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

# Which of the following has a base that is a triangle?

- ✓ ● Triangular prism
- Cube
- Square pyramid
- Rectangular pyramid

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

I am a three-dimensional figure with four faces.  
All of my faces, including the base are  
triangles. What am I?

- rectangular prism
- triangular prism
- ✓ ● triangular pyramid
- rectangular pyramid

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

# How many faces of a cube are squares?

☐ 2

☐ 4

☒ 6

☐ 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								

Sally is going to build a table for her family room. It is in the shape of a triangular prism. What shapes will she need to build the table?

- 5 triangles
- ✓ ● 2 triangles and 3 rectangles
- 2 triangles and 4 rectangles
- 6 rectangles

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32								