## Identify and Classify Three-Dimensional Figures

## Florida's B.E.S.T.

- Geometric Reasoning 5.GR.1.2
- Mathematical Thinking \& Reasoning

MTR.1.1, MTR.2.1, MTR.3.1, MTR.5. 1

## I Can identify, describe, and classify three-dimensional

 figures.
## UNLOCK the Problem

A solid figure has three dimensions: length, width, and height.
Polyhedrons, such as prisms and pyramids, are three-dimensional figures with faces that are polygons.

A prism is a polyhedron that has two same-size and same-shape polygons as bases.

A polyhedron's lateral faces are polygons that connect with the bases. The lateral faces of a prism are rectangles.


A prism's base shape is used to name the solid figure. The base shape of this prism is a triangle. The prism is a triangular prism.

Identify the base shape of the prism. Use the terms in the box to correctly name the prism by its base shape.


Base shape: $\qquad$
Name the solid figure.

## Math Idea

A two-dimensional figure has the dimensions length and width, which are used to find the figure's area.

A three-dimensional figure, or solid, has three dimensions: length, width, and height. These dimensions are used to find the figure's volume, or the space it occupies.

## Types of Prisms

decagonal prism octagonal prism hexagonal prism pentagonal prism rectangular prism triangular prism


Base shape: $\qquad$
Name the solid figure.


Base shape: $\qquad$ Name the solid figure.

MTR
Use patterns and structure.

What shapes make up a decagonal prism, and how many are there? Explain.

What special prism has same-size squares for bases and lateral faces?

Pyramid A pyramid is a polyhedron with only one base. The lateral faces of a pyramid are triangles that meet at a common vertex called an apex.

Like a prism, a pyramid is named for the shape of its base.
Identify the base shape of the pyramid. Use the terms in the box to correctly name the pyramid by its base shape.

Types of Pyramids pentagonal pyramid rectangular pyramid square pyramid triangular pyramid

Base shape: $\qquad$
Name the solid figure.
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Base shape: $\qquad$
Name the solid figure.

$\qquad$


Base shape: $\qquad$
Name the solid figure.

Non-polyhedrons Some three-dimensional figures have curved surfaces. These solid figures are not polyhedrons.


A cone has 1 circular base and 1 curved surface.


A cylinder has 2 same-size circular bases and 1 curved surface.


A sphere has no bases and 1 curved surface.

## Share and Show gMoth Board

Classify the solid figure. Write prism, pyramid, cone, cylinder, or sphere.
1.

2.

3.


## Name the solid figure.

4. 


5.

$\varnothing$


