

Name _____ Period _____

Surface Area of Prisms & Pyramids

Comparing and Contrasting Prisms and Pyramids

A Prism has...

- **Two** polygonal bases
- **Rectangular** faces

A Pyramid has...

- **One** polygonal base
- **Triangular** faces

Both are polyhedrons.
Both must have polygon faces.
Both cannot have circles.

How to name a prism: **Name a prism by its base shape.**

Prisms are connected by rectangles so this is not the base (unless the shape is in fact a rectangular prism).

How to name a pyramid: **Name a pyramid by its one base shape.**

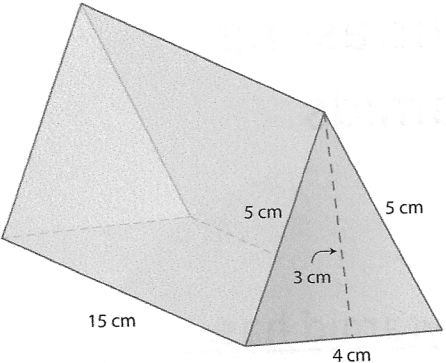
Pyramids are connected by triangles so the triangles are not the base (unless the shape is in fact a triangular pyramid).

Formula for finding the Surface area of a prism or pyramid:

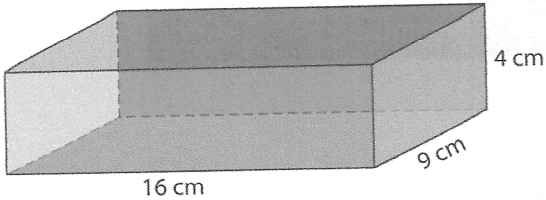
Find the 2 dimensional area of each face of the solid and add the areas together.

Practice:

1)

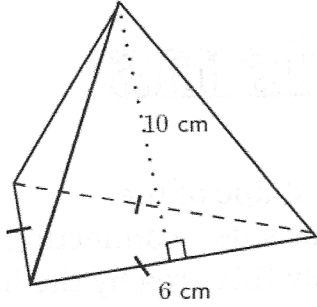
<p>Triangular Prism</p> 	<p>Surface Area:</p>
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2)

<p>Rectangular Prism:</p> 	<p>Surface Area:</p>
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3)

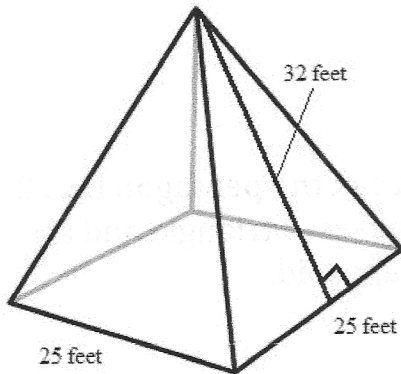
Triangular Pyramid:



Surface Area:

4)

Rectangular (Square) Pyramid:

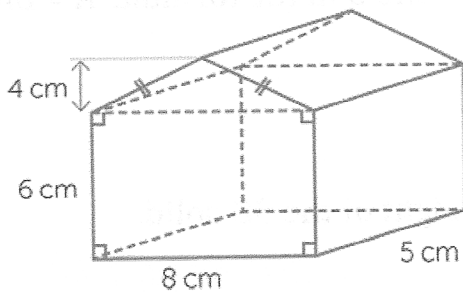


Surface Area:

Q: How do you find the surface area when two shapes are joined together?

A: Do not count faces that are internal to the newly formed shape.

Practice Compound Shape:



Surface Area: