## Three-Dimensional 3D Figures

Solid: A three-dimensional figure that encloses a \_\_\_\_\_

Ex. A box of cereal is a solid.

Polyhedron: A solid whose \_\_\_\_\_ are all polygons.

Ex. A pyramid is a polyhedron because all of its faces are polygons.

Face: A \_\_\_\_\_\_ surface of a polyhedron.

Ex. The front of a house could be a face of a polyhedron.

Edge: A \_\_\_\_\_\_ segment where two \_\_\_\_\_\_

intersect.

Ex. The perimeter of each face makes the edges to any polyhedron.

Vertex: A \_\_\_\_\_\_ where three or more \_\_\_\_\_\_

intersect.

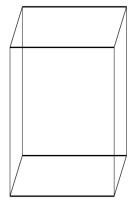
Ex. The sharp corners of any box are examples of the vertex.

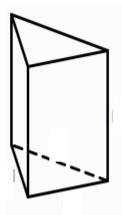
<mark>Prism:</mark> A polyhedron that has two \_\_\_\_\_\_, identical bases. The \_\_\_\_\_\_faces are always parallelograms.

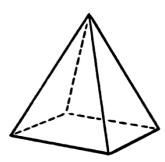
Draw a picture

<mark>Pyramid:</mark> A polyhedron that has \_\_\_\_\_\_ base. The lateral faces are always

Draw a picture







Together Examples: Draw the front, side, and top view of each stack of cubes. Then	
find the number of cubes in the stack.	
Tip: Dot paper can help you draw three-dimensional figures, or solids.	
1.	2.
Front-	Front-
Side-	Side-
Top-	Тор-
# of Cubes-	# of Cubes-
Pause and Try: Draw the front, side, and top view of each stack of cubes. Then find	
the number of cubes in the stack.	
Tip: Dot paper can help you draw three-dimensional figures	_
3.	4.
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<b>F</b> .	• • •
Front-	Front-
Side-	Side-
Tan	Ten
Тор-	Тор-
# of Cubes-	# of Cubes-

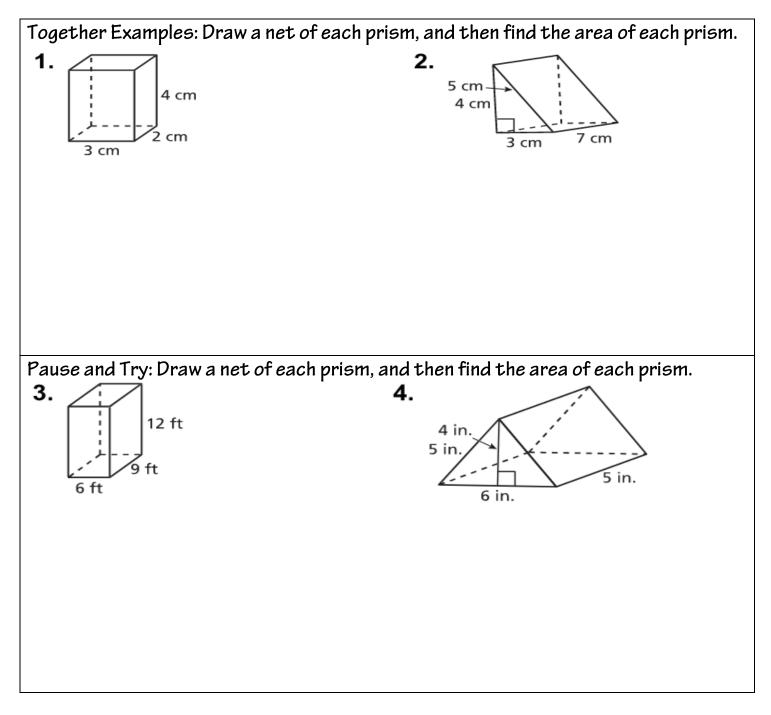
## Surface Area SA of Prisms

 Surface Area: The \_\_\_\_\_\_ of a solid is the \_\_\_\_\_\_ of all the areas of all of its \_\_\_\_\_\_.

 All of its \_\_\_\_\_\_.

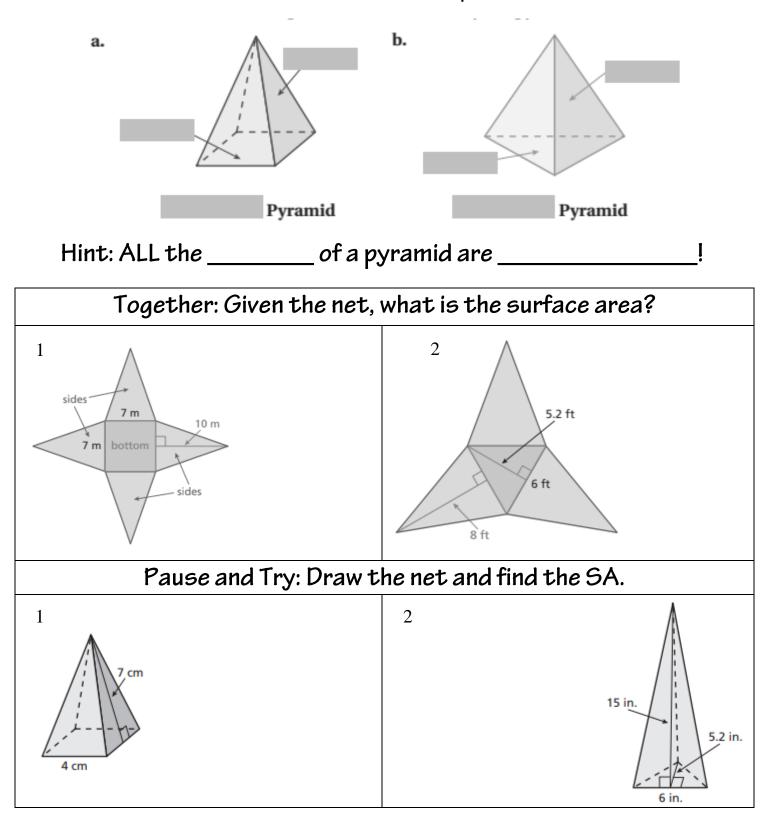
Net: A two-dimensional representation of a \_\_\_\_\_\_. You can use a net to find the \_\_\_\_\_\_ of a solid.

Find the area of all of the faces and add them all together.



## Surface Area SA of Pyramids

Label one of the faces as a BASE and the other as a LATERAL FACE. Use the shape of the base to identify the pyramid.



## Volume of Rectangular Prisms

Volume:

