Geometry: 10-4 Notes

VOCAB:

Net: A net is a 2-D representation of a 3-D figure. A net can be folded into a 3-D figure.

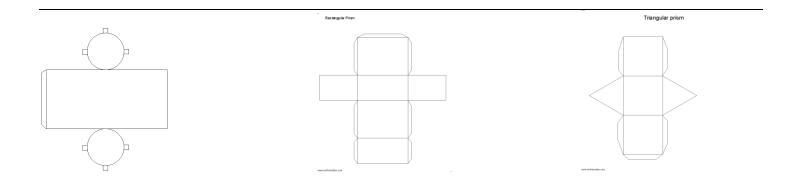
<u>Surface Area</u>: The surface area of the TOTAL AREA of all faces and curved surfaces in a 3-D figure. *You can think about it this way*: Say the 3-D shape was dropped into and fully submerged in a bucket of paint. The amount of paint used to cover it represents the surface area!

<u>Lateral Area (prism)</u>: The sum of all faces of a prism EXCEPT for the bases. (the side area of the prism)

Find the <u>surface area</u> of each 3-D figure. (Imagine the shape, when folded, was dropped into a bucket of paint. Find how much paint, in square units, covers each figure).

a)	How do you think it would be <u>EASIEST</u> to find the surface area from each given net?

b) Find all necessary lengths and calculate the surface area:

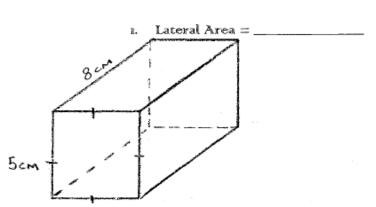


Formula for **lateral area** of a prism/cylinder:

Formula for **surface area** of a prism/cylinder:

Examples: Name the solid given. Then, find the lateral area AND surface area of each solid.

1)

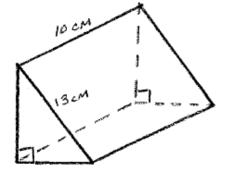


Total Surface Area = _____

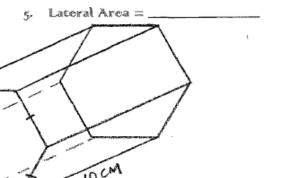
2)



Total Surface Area =



3)



Total Surface Area =

4)

Surface Area = _____

