## Net:

* A two dimensional pattern of a 3-d object.
* Can be folded to form the 3-d object.
* Helpful in visualization of the polygons that make up the surface of a solid.

triangular prism What 3D object do you think this turns out to be?


Square Pyramid


Icosahedron


Dodecahedron


Right Cone
$\square$


Surface Area:

* How much material is needed to cover the whole surface.
* Think of wrapping a present!!!!
* It is the sum of the areas for each face of solid.

Example: Find the Surface Area of the Kleenex box

$$
\begin{aligned}
& A=b h=9 * 2.75=24.75 \mathrm{sin}^{2} 2.75 \mathrm{in} \text { men } \\
& A=b h=4.5 * 275=12.37 \mathrm{sin}^{2}, 9 \mathrm{in} \quad \mathrm{~N}^{2} .5 \mathrm{in} \\
& T=b h=4.5 * 9=40.5 \mathrm{in}^{2} \\
& S A=2(24.75)+2(12.375)+2(40.5) \\
& 5 A=155.25 \mathrm{in} 2
\end{aligned}
$$

Ex 1: Find the surface area of the rectangular prism

2.

3. Draw the net of the figure and then find the surface area.

4. Find the surface area of the figure below


How many faces are there?

$$
2 \Delta_{S}^{\prime}+3 \square_{s}^{\prime} s
$$



