## Surface Area

## Concept

The surface area of a solid is the total area of its surface. it's like finding the area of a two dimensional shape but there will be more than one side since it's 3 dimensional.
To find the surface area of this RECTANGULAR PRISM you have to find the area of each face (side) and then add them all together.

If you look closely you can see there are 6 faces (sides) total. So you would have to find the area of each face.

$$
\begin{gathered}
\text { Area of front or back }=(1 \times h) \\
\text { Area of left or right }=(w \times h) \\
\text { Area of top or bottom }=(1 \times w) \\
\text { The surface area equation would look like this } \\
(1 \times w)+(1 \times w)+(w \times h)+(w \times h)+(l \times h)+(1 \times h) \\
\text { OR } \\
2(1 \times w)+2(w \times h)+2(1 \times h)
\end{gathered}
$$



## Example

- The formula for the surface area of a rectangular prism is $\mathbf{2 ( l w ) + 2 ( w h ) + 2 ( l h ) .}$



## Find the surface area of each shape

A)

B)

C)


