Station 1
a) Use the formula to calculate the total surface area of the cylinder to the nearest hundredth of a centimetre. Draw a net. Use 3.14 for $\pi$.


Radius $=5 \mathrm{~cm}$

$$
\text { answer: } 2 \pi r^{2}+2 \pi r h
$$

$$
\text { Height }=6 \mathrm{~cm}
$$

$$
=2(3.14)(5)^{2}+2(3.14)(5)(6)
$$

$$
=157+188.4
$$

$$
=345.4 \mathrm{~cm}^{2}
$$

b) Sketch the top, front, and side views of this solid.


Sketch the top, front, and side views of this solid.


If you turn the polyhedron from \#3 $90^{\circ}$ degrees counterclockwise, how would the three views change? Sketch and label each new view.

Station 2


Calculate the surface area of the label on a can of soup with the dimensions. Draw a net. Use 3.14 for $\pi$.

$$
\begin{array}{lrl}
\text { Height }=11 \mathrm{~cm} & A & =h \times 2 \pi r \\
\text { Diameter }=6 \mathrm{~cm} & & =11 \times 2(3.14)(3)
\end{array}
$$

b) Draw and label the measurements of the three views of this triangular prism.


Station 3


Rahim's dad wants to paint the outside of his garage, including the roof.
a) How many sides of the garage need to be painted? $\qquad$
b) Name the two shapes that make up the front and the back side of the garage. $\qquad$ square and $\qquad$ triangle
c) Calculate the total surface area that needs to be painted. Show your work. Round your answer to the nearest tenth of a metre.


Station 4
Calculate the total surface area
 $* 8 / a a$
$6-a=a^{2}$
$8^{2}-b^{2}=a^{2}$
$64-36=a^{2}$
$88=a^{2}$
$a=5.3$
$=423.6 \mathrm{~m}^{2}$

$$
\begin{aligned}
A_{T} & =320+423.6+600 \\
& =1343.6 \mathrm{~m}^{2}
\end{aligned}
$$

rectangular prism

$$
\begin{aligned}
& A=2(b \times h \div 2)^{*}+l \times w+l x w+l w=2(30.35) \\
& =60.7 \mathrm{~m}^{2}
\end{aligned}
$$

$$
=2(3.37 \times 2.5 \div 2)+(2.2 \times 4.2)+(1.0 \times 3.37)+(2.5 \times 2.2)
$$

$$
=8.425+9.24+3.37+5.5
$$

$$
=26.535 \mathrm{~m}^{2}
$$

$$
\begin{aligned}
& A=2(5.3 \times 2.2+2.5 \times 5.3+2.2 \times 2.5) \\
& =2(11.66+13.25+5.5) \\
& =2(30.35) \\
& =60.7 \mathrm{~m}^{2} \\
& 3.37)+(2.5 \times 2.2) \quad * \\
& 35+60.7 \\
& 87.235 \mathrm{~m}^{2} \quad \begin{array}{l}
4.2 .5
\end{array} \\
&
\end{aligned}
$$

$$
A_{T}-26 . \frac{535+60.7}{=87.235 \mathrm{~m}^{2}}
$$

## Station 5

a) Calculate the total surface area:

b) Draw the net for the object. Label the measurements on the net. Find the total Surface Area.


## Station 6

Solve a Burning Question (on the whiteboard) that has not been solved yet


