Grade 9 Math - Section 1.4 - Surface Area of Composite Triangular Prisms Worksheet
Name: $\qquad$

Find the surface area of each composite object
S. A Triangular Prism:

S.A Rectangular Prism:

2 Triangles: $2\left(\frac{b h}{2}\right)=2\left(\frac{12 \times 8}{2}\right)=96$
Bottom: $12 \times 5=60$
$==1$ left: $16 \times 5=80$
right

$$
\begin{aligned}
& {[2 \cdot L \cdot W]+[2 \cdot L \cdot H]+[2 \cdot W \cdot H] } \\
= & {[2 \cdot 19 \cdot 5]+[2 \cdot 19 \cdot 7]+[2 \cdot 5 \cdot 7] } \\
= & 190+266+70 \\
= & 526
\end{aligned}
$$

$$
\begin{aligned}
& : 16 \times 5=\frac{80}{316} \\
& \text { Overlap }=12 \times 5=60 \\
& \text { T.S.A }=316+526-2 \times 60 \\
& =316+526-120 \\
& =722 \mathrm{ft}^{2}
\end{aligned}
$$



SA Triangular Prism:

$$
F_{3}^{\prime} B: 2\left(\frac{8 \times 10}{2}\right)=80
$$

Sides: $2(11 \times 6)=132$
Bottom:

$$
8 \times 6=\frac{48}{260}
$$

S.A Rectangular Prism:

$$
\begin{aligned}
& F ? B: 2(18 \times 9)=324 \\
& L P R: 2(6 \times 9)=108 \\
& T \stackrel{1}{P} B: Q(18 \times 6)=\frac{216}{648}
\end{aligned}
$$



