\[ a^2 + b^2 = c^2 \]
\[ 8^2 + 6^2 = c^2 \]
\[ 64 + 36 = c^2 \]
\[ 100 = c^2 \]
\[ \sqrt{100} = c \]
\[ 10 = c \]

\[ SA = \pi r^2 + \pi r s \]
\[ = \pi (6)^2 + \pi (6)(10) \]
\[ = \pi (36) + \pi (60) \]
\[ = 301.5928447 \]
\[ = 301.59 \text{ in}^2 \]
SQ. Based Pyramid
S.A. = $b^2 + 2bs$

\[
\begin{align*}
\sqrt{16^2 + 12^2} &= c \\
16^2 + 12^2 &= c^2 \\
256 + 144 &= c^2 \\
\sqrt{400} &= \sqrt{c^2} \\
20 &= c
\end{align*}
\]

\[
\begin{align*}
SA &= b^2 + 2bs \\
&= 32^2 + 2(32)(20) \\
&= 1024 + 1280 \\
&= 2304 \text{ ft}^2
\end{align*}
\]