## Example 1 - Determining the Surface Area of a Composite Object

Determine the surface area of this composite object.


## Example 2

Determine the surface area of the following complex object

## centimeter.



$$
\begin{aligned}
& \text { cylinder } \\
& \begin{aligned}
\text { LSA } & =2 \pi r h \\
& =2 \pi(3)(8) \\
& =\underline{150.796}
\end{aligned} \\
& \begin{aligned}
\text { rect prism }
\end{aligned} \\
& S A \\
& = \\
& \\
& = \\
& \\
& =
\end{aligned}
$$

## Example 3 - Solving a Problem Related to a Composite Object

A tool shed is formed by a rectangular prism with a triangular prism as its roof. Determine the surface area of the tool shed为


$$
3^{2}+2^{2}=w^{2}
$$

$$
13=w^{2}
$$

$$
\sqrt{13}=w
$$

Assignment: Day 1; Pg 59; 5 (only volume), 7 (a,c,d), 8, 9,10
Day 2; $\operatorname{Pg} 59 ; 3,5$ (surface area), 6

$$
\begin{aligned}
& \text { Triangular prism } \\
& 2 \text { triangles and } \\
& 2 \text { rectangles } \\
& A=\frac{b h}{b} \times 2 \\
& A=l \omega \times 2 \\
& =\frac{4(3)}{22} \times 2 \\
& =6(\sqrt{13}) \times 2 \\
& =12 \mathrm{ft}^{2} \\
& =43.2666 \ldots \\
& \text { Rect prism } 2 \text { sides frontiback } \\
& A=2(5)(6)+2(5)(4) \\
& =100 \mathrm{ft}^{2} \\
& \begin{aligned}
S A & =12+43.2666 \ldots+100 \\
& =155.267 \mathrm{ft}^{2}
\end{aligned}
\end{aligned}
$$

