Section 12.1p. 563: 4, 6-11
\#4

a. Find the total surface area if

$$
\text { a. } \quad S=6 \quad l=5
$$

$$
\text { L.S.A. }=P_{\text {Base }} \cdot h \quad A_{\text {base }}=\frac{6.3 \sqrt{3}}{3}
$$

$$
=18.5
$$

$$
=a \sqrt{3} u^{2}
$$

$$
=90 u^{2}
$$

$$
\text { T.S.A. }=90+9 \sqrt{3}+9 \sqrt{3}
$$

$$
=90+18 \sqrt{3} u^{2}
$$

\# 6

\#7


$$
\begin{aligned}
\text { L.S.A } & =P_{\text {Base }} \cdot h \\
& =24.20 \\
& =480 \mathrm{u}^{2}
\end{aligned}
$$

T.S.A $=480+36+36$

$$
=552 u^{2}
$$



$$
\begin{array}{rlrl}
\text { L.S.A } & =P_{\text {Base }} \cdot h & A_{\text {Base }} & =\frac{24.5}{2}=60 \\
& =50.50 & & \\
& =2500 \mathrm{u}^{2} & T . S . A & =2500+60+60 \\
& =2620 \mathrm{u}^{2}
\end{array}
$$

\# 8


$$
\begin{aligned}
\text { L.S.A } & =P_{\text {Base }} \cdot h \quad A_{\text {base }}=22 \\
& =26 \cdot 7 \\
& =182 \\
\text { T.S.A. } & =182+22+22=226 u^{2}
\end{aligned}
$$

\#9


$$
\begin{aligned}
\text { L.S.A } & =P_{\text {Base }} \cdot h \\
& =56.11 \\
& =616
\end{aligned}
$$

ABase: $\quad s=\frac{32}{2}=16$

$$
l \sqrt{16(1)(3)(12)}
$$

$$
4 \cdot 2 \cdot 3 \cdot 1
$$

$$
=24
$$

$A_{\text {Base }}=48$

$$
\text { T.S.A. }=616+48+48=712
$$

\#10 The perimeter of the scalene base of a pentagonal right prism is 17, and a lateral edge of the prism measures 10. Find the prisms lateral area.

$$
\begin{aligned}
\text { L.S.A } & =P_{\text {Base }} h \\
& =17.10 \\
& =170
\end{aligned}
$$

\# II
A fin cube is painted on the outside and cut into


