ex 1 Find the area.


$$
\begin{aligned}
& A=\frac{1}{2} b \cdot h \\
& A=\frac{1}{2}(12)(8) \\
& A=48 \text { square units }
\end{aligned}
$$

ex 2 Find the area of this trapezoid.


$$
\begin{aligned}
& A=\frac{1}{2}\left(b_{1}+b_{2}\right) \cdot h \\
& A=\frac{1}{2}(12+17)(5) \\
& A=72.5 \text { square units }
\end{aligned}
$$

ex 3 Find the area. Since the four sides are congruent it is a rhombus. The 3 and 4 are parts of each diagonal length. Since it is a parallelogram we know diagonals have been bisected.


$$
\begin{aligned}
& A=\frac{1}{2} d_{1} \cdot d_{2} \\
& A=\frac{1}{2}(6)(8) \\
& A=24 \text { square units }
\end{aligned}
$$

ex 4 Find the area.

ex 5 Find the height.


$$
\begin{aligned}
A & =\frac{1}{2} b \cdot h \\
80 & =\frac{1}{2}(16)(h) \\
160 & =16 h \\
10 & =h
\end{aligned}
$$

ex 6 Find the missing length.


$$
\begin{aligned}
A & =\frac{1}{2}\left(b_{1}+b_{2}\right) \cdot h \\
90 & =\frac{1}{2}(b+16)(6) \\
180 & =(b+16)(6) \\
30 & =b+16 \\
14 & =b
\end{aligned}
$$

