$\qquad$
$\qquad$
Area of Trapezoids

3.

$$
\begin{aligned}
& b_{1}+b_{2}=3+6.5=9.5 \\
& h=4 \\
& A=\frac{1}{2}(4)(9.5) \\
& A=2(9.5) \\
& A=19 \mathrm{ft}^{2}
\end{aligned}
$$

4. 

 ${ }_{12 \mathrm{~cm}}=23 \mathrm{~cm}$ $h=12$
$A=\frac{1}{2} 12 \times 23$
$A=6.23=138 \mathrm{~cm}^{2}$
5.

6.

12.2 cm | 4.5 cm |
| :---: |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| $\vdots$ |
| 7.5 cm |

7. 


8.


Find the missing dimension of the trapezoid. Label your answer appropriately.
9. Area $\mathbf{= 7 2}$ square inches
base $1=9$ inches
base $2=15$ inches
height $=\underline{6}$ inches

$$
\begin{aligned}
& 72=\frac{1}{2} h(9+15) \\
& 72=\frac{1}{2}(24) h \\
& \frac{72}{12}=\frac{18 h}{18} h=
\end{aligned}
$$

10. Area $=\mathbf{8 8}$ square centimeters
base $1=10$ centimeters
base $2=12$ centimeters height $=$ $\qquad$ centimeters
