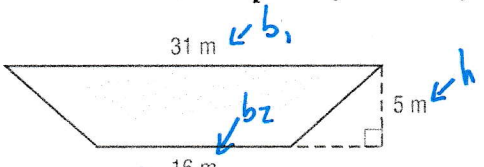
Areas of Trapezoids, Rhombi, and Kites

Find the area of each trapezoid, rhombus, or kite.

1.



$A = \frac{1}{2}(b_1 + b_2)h$

$\frac{1}{2}(31+16)5$

$\frac{1}{2}47.5$

$A = 117.5\ m^2$

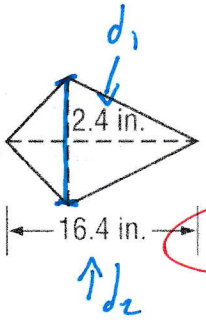
2.

$A = \frac{1}{2}d_1d_2$

$\frac{1}{2} \cdot 34 \cdot 11$

$187\ cm^2$

3.

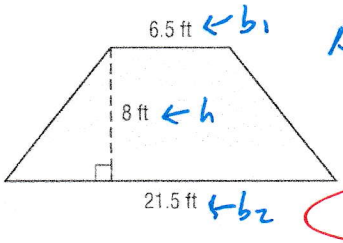


$A = \frac{1}{2}d_1d_2$

$\frac{1}{2} \cdot 2.4 \cdot 16.4$

$A = 19.68\ in^2$

4.



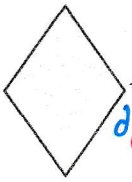
$A = \frac{1}{2}(b_1 + b_2)h$

$\frac{1}{2}(6.5+21.5)8$

$\frac{1}{2}28.8$

$A = 112\ ft^2$

5.

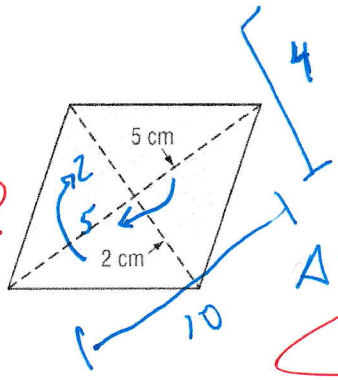


$A = \frac{1}{2}d_1d_2$

$\frac{1}{2} \cdot 17 \cdot 12$

$A = 102\ ft^2$

6.

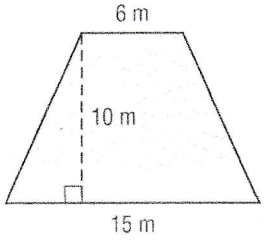


$A = \frac{1}{2} \cdot 4 \cdot 10$

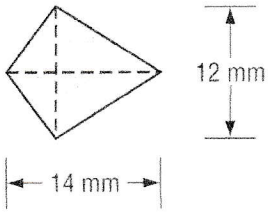
$20\ cm^2$

Find the area of each trapezoid, rhombus, or kite.

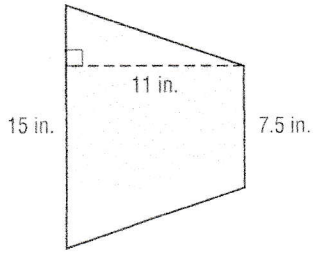
1.



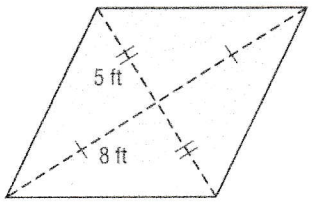
2.



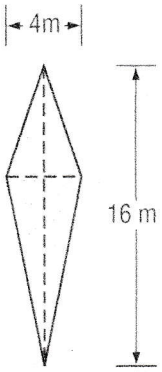
3.



4.



5.



6.