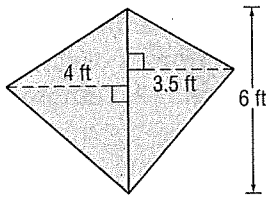


# 11-2 Skills Practice

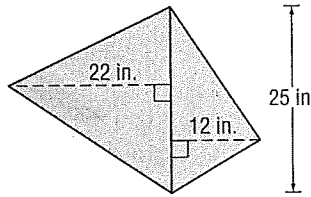
## Areas of Triangles, Trapezoids, and Rhombi

Find the area of each figure. Round to the nearest tenth if necessary.

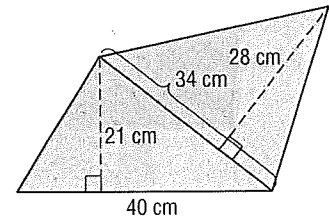
1.



2.



3.

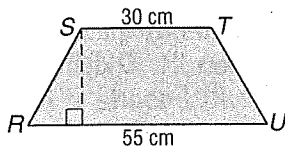


Find the area of each quadrilateral given the coordinates of the vertices.

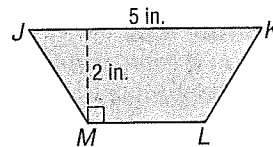
4. trapezoid  $WXYZ$ 
 $W(-5, 3), X(3, 3), Y(6, -3), Z(-8, -3)$ 
5. rhombus  $HIJK$ 
 $H(4, -3), I(2, -7), J(0, -3), K(2, 1)$ 

Find the missing measure for each figure.

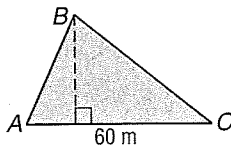
6. Trapezoid  $RSTU$  has an area of 935 square centimeters. Find the height of  $RSTU$ .



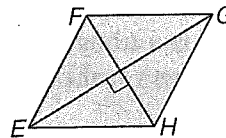
7. Trapezoid  $JKLM$  has an area of 7.5 square inches. Find  $ML$ .



8. Triangle  $ABC$  has an area of 1050 square meters. Find the height of  $\triangle ABC$ .



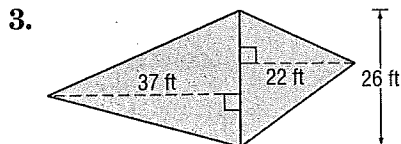
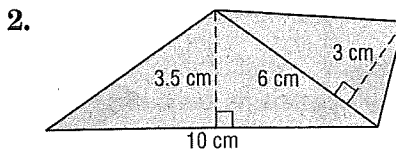
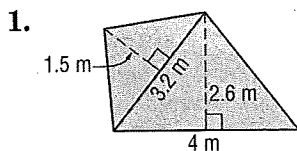
9. Rhombus  $EFGH$  has an area of 750 square feet. If  $EG$  is 50 feet, find  $FH$ .



# 11-2 Practice

## Areas of Triangles, Trapezoids, and Rhombi

Find the area of each figure. Round to the nearest tenth if necessary.



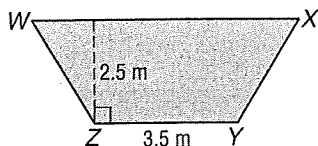
Find the area of each quadrilateral given the coordinates of the vertices.

4. trapezoid  $ABCD$   
 $A(-7, 1)$ ,  $B(-4, 4)$ ,  $C(-4, -6)$ ,  
 $D(-7, -3)$

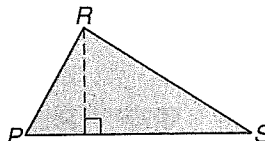
5. rhombus  $LMNO$   
 $L(6, 8)$ ,  $M(14, 4)$ ,  $N(6, 0)$ ,  
 $O(-2, 4)$

Find the missing measure for each figure.

6. Trapezoid  $WXYZ$  has an area of 13.75 square meters. Find  $WX$ .



7. Triangle  $PRS$  has an area of 68 square yards. If the height of  $\triangle PRS$  is 8 yards, find the base.



**DESIGN** For Exercises 8 and 9, use the following information.

Mr. Hagarty used 16 congruent rhombi-shaped tiles to design the midsection of the backsplash area above a kitchen sink. The length of the design is 27 inches and the total area is 108 square inches.



- Find the area of one rhombus.
- Find the length of each diagonal.