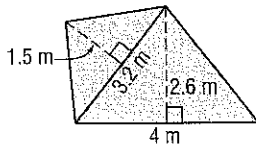


11-2 Practice

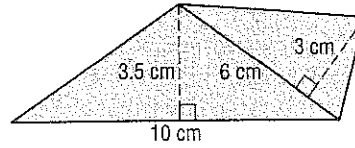
Areas of Triangles, Trapezoids, and Rhombi

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

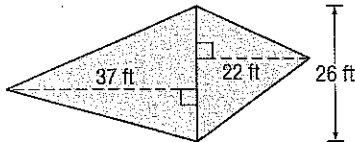
1.



2.



3.



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

4. trapezoid $ABCD$

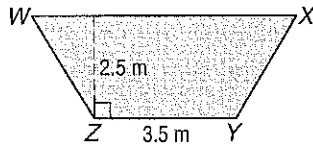
$A(-7, 1)$, $B(-4, 4)$, $C(-4, -6)$,
 $D(-7, -3)$

5. rhombus $LMNO$

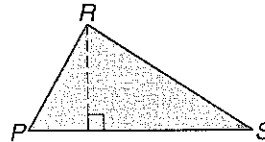
$L(6, 8)$, $M(14, 4)$, $N(6, 0)$,
 $O(-2, 4)$

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.



8. Find the area of one rhombus.

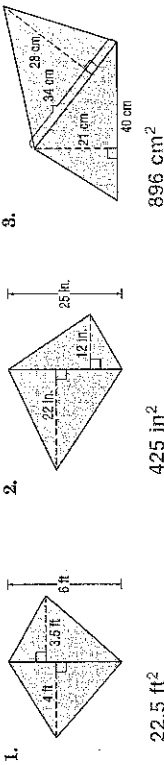
9. Find the length of each diagonal.

NAME _____ DATE _____ PERIOD _____

11-2 Skills Practice

Areas of Triangles, Trapezoids, and Rhombi

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

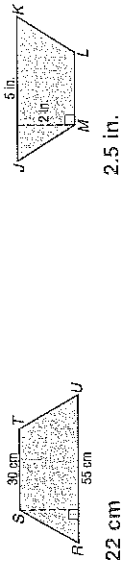


Find the area of each quadrilateral given the coordinates of the vertices.

4. trapezoid $WXYZ$
 $W(-5, 3), X(3, 3), Y(6, -3), Z(-8, -3)$
 66 units²
5. rhombus $HLJK$
 $H(4, -3), I(2, -7), J(0, -3), K(2, 1)$
 16 units²

Find the missing measure for each figure.

6. Trapezoid $RSTU$ has an area of 936 square centimeters. Find the height of $RSTU$.
7. Trapezoid $JKLM$ has an area of 7.5 square inches. Find ML .



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

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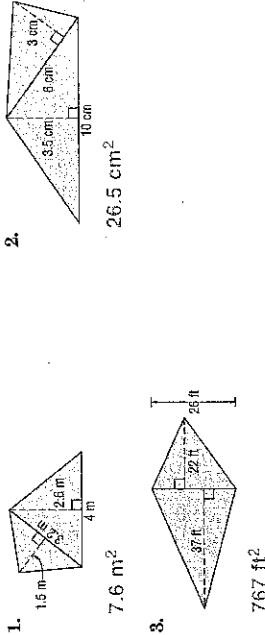
Glencoe Geometry

NAME _____ DATE _____ PERIOD _____

11-2 Practice (Average)

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 $ABCD$
 $A(-7, 1), B(-4, 4), C(-4, -6), D(-7, -3)$
 21 units²
5. rhombus $LMNO$
 $L(6, 8), M(14, 4), N(6, 0), O(-2, 4)$
 64 units²

Find the missing measure for each figure.

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



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.

8. Find the area of one rhombus.

$6\frac{3}{4}$ in²

9. Find the length of each diagonal.

$4\frac{1}{2}$ in., 3 in.

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Glencoe Geometry

Lesson 11-2