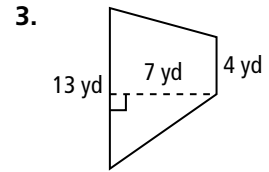
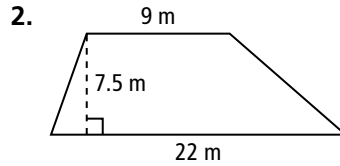
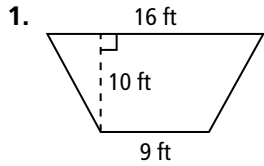


9.3

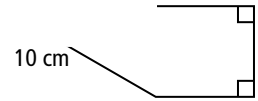
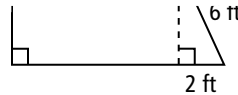
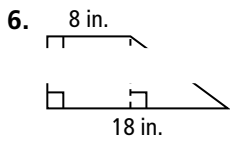
Areas of Trapezoids, Rhombuses, and Kites

Find the area of each trapezoid.

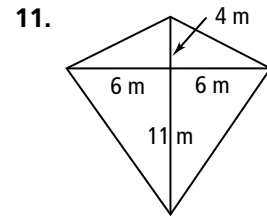
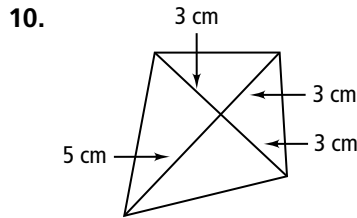
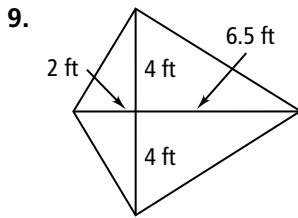


4. Find the area of a trapezoid with bases 20 cm and 14 cm and height 5 cm.
5. Find the area of a trapezoid with bases 8 in. and 7 in. and height 5.2 in.

Find the area of each trapezoid. If your answer is not an integer, leave it in simplest radical form.

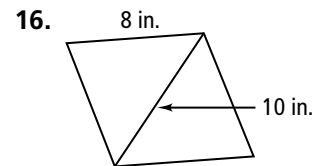
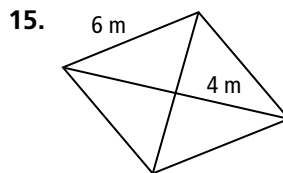
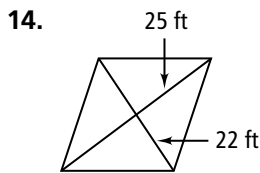


Find the area of each kite.



12. Find the area of a kite with diagonals 12 ft and 3 ft.
13. Find the area of a kite with diagonals 16 m and 14 m.

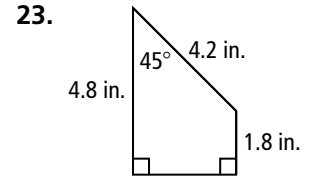
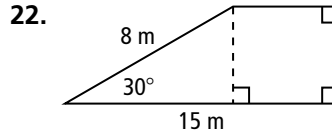
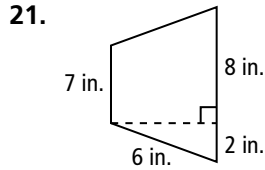
Find the area of each rhombus.



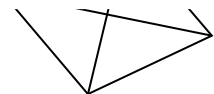
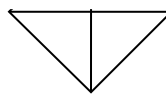
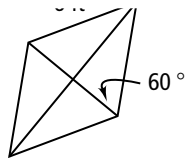
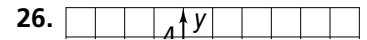
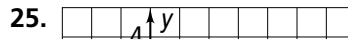
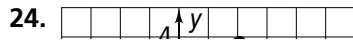
17. Find the area of a rhombus with diagonals 9 yd and 6 yd.
18. Find the area of a rhombus with diagonals 4.5 in. and 5.2 in.
19. **Open-Ended** Draw a rhombus. Measure the lengths of its diagonals. Find its area.

trapezoid and find its perimeter and area.

Find the area of each trapezoid to the nearest tenth.



**Coordinate Geometry** Find the area of quadrilateral  $QRST$ .



32. Trapezoid  $QRST$  has two right angles. A 5 in. altitude can be drawn dividing  $QRST$  into a rectangle and an isosceles right triangle. The longer side of the rectangle measures 9 in. What is the area of the trapezoid?
33. In isosceles trapezoid  $EFGH$ ,  $\overline{FG} \parallel \overline{EH}$ ,  $FG = 10$ ,  $GH = 12$ , and  $m\angle E = 60$ . Find the area of  $EFGH$ .