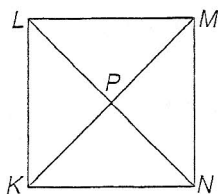


For Questions 17–18, refer to the figure at the right. Quadrilateral  $KLMN$  is a square.



17. If  $LN = 32$ , find  $PN$ .

17. 16

18. Find  $m\angle LPM$ .

18. 90

19. When the diagonals of quadrilateral  $RSTU$  are drawn, they are the perpendicular bisectors of each other. What type of quadrilateral is  $RSTU$ ?

19. Rhombus (or square)

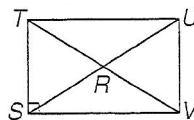
20. In rhombus  $ABCD$ , the measure of  $\overline{AB}$  is 26 meters, and the measure of  $\angle A$  is 66. Determine the measures of the other three sides and the other three angles of the rhombus.

$BC = CD =$   
 $AD = 26 \text{ m};$   
 $m\angle B = m\angle D =$   
114,  $m\angle C = 66$

21. In rhombus  $EFGH$ , diagonal  $EG$  is drawn. If  $m\angle GEH = 53$ , find  $m\angle HEF$ .

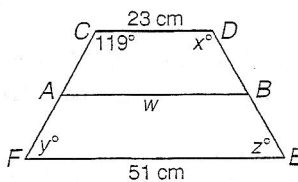
21. 106

22. Refer to rectangle  $STUV$  shown at the right. Find the value of  $x$  if  $RU = 13$  and  $TV = 3x + 2$ .



22. 8

23. In the figure at the right,  $\overline{AB}$  is the median of isosceles trapezoid  $CDEF$ . Find the values of  $w$ ,  $x$ ,  $y$ , and  $z$ .



$w = 37 \text{ cm};$   
 $x = 119; y = 61;$   
 $z = 61$

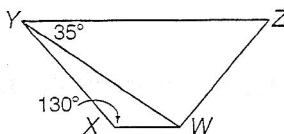
24. The length of the longer base of a trapezoid is 22 yards, and the length of the median is 18 yards. Find the length of the shorter base of the trapezoid.

24. 14 yd

25. Is it possible for the bases of a trapezoid to both be shorter than its legs? Write yes or no. If yes, draw the trapezoid.

25. yes 10

**Bonus** In the figure at the right, quadrilateral  $WXYZ$  is an isosceles trapezoid with  $\overline{XY} \cong \overline{WZ}$ . Find  $m\angle YWZ$ .



Bonus 95