

5.Find m $\angle Z$.



6. *KM* = 7.5, and *NM* = 2.6. Find *LN*.



7. Find the value of *n* so that *PQRS* is isosceles.







9. BD = 7a - 0.5 and AC = 5a + 2.3. Find the

value of *a* so that *ABCD* is isosceles.



10. $QS = 8z^2$, and $RT = 6z^2 + 50$. Find the

value of z so that QRST is isosceles.



Use the figure for Problems 11 and 12. The figure shows a *ziggurat*. A ziggurat is a stepped, flat-topped pyramid that was used as a temple by ancient peoples of Mesopotamia. The dashed lines show that a ziggurat has sides roughly in the shape of a trapezoid.



- 11. Each "step" in the ziggurat has equal height. Give the vocabulary term for MN.
- 12. The bottom of the ziggurat is 27.3 meters long, and the top of the ziggurat is 11.6 meters long. Find *MN*.
- 13. The figure shows a window in the shape of a kite.
 - **a.** Find $m \angle XVW$.
 - **b.** Find \overline{XY} .
 - **c**. Which angle is congruent to $\angle XYZ$?







15.

Find the indicated measurement using quadrilateral *ABCD* as a reference.

16. $\overline{AD} \cong \overline{BC}, m \angle D = 75^{\circ}$. Find $m \angle A$.





Find the indicated measurement using **quadrilateral** *ABCD* as a reference.

18. $\overline{AD} \cong \overline{AB}, \ \overline{DC} \cong \overline{BC}, \ m \angle A = 130^\circ, \ m \angle C = 30^\circ.$ Find $m \angle B$.



In 19 – 22, find $m \angle G$.









22.