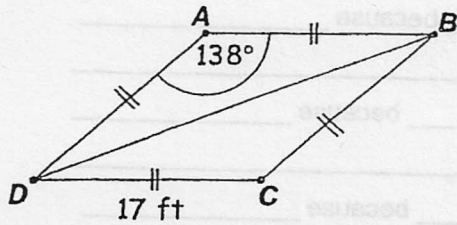


# Rhombus Measurements



ABCD is a \_\_\_\_\_ because \_\_\_\_\_

$m\angle ADB =$  \_\_\_\_\_ Why? \_\_\_\_\_

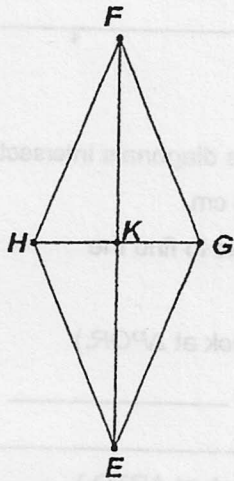
(Hint: What kind of triangle is  $\triangle ABD$ ?)

$m\angle BDC =$  \_\_\_\_\_

Why? \_\_\_\_\_

$m\angle BCD =$  \_\_\_\_\_

Why? \_\_\_\_\_



EGFH is a rhombus.

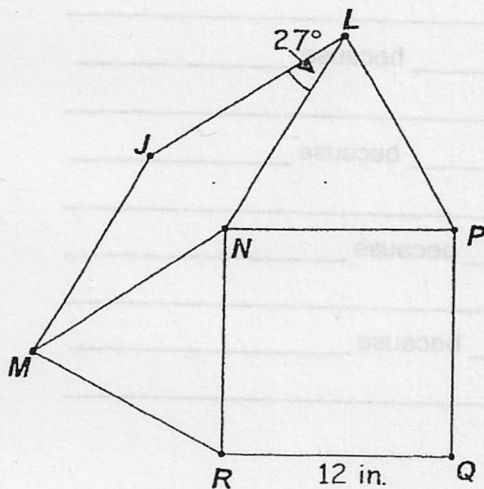
$FK = 12$  m

$KG = 5$  m

$FG = 13$  m

Perimeter = \_\_\_\_\_ because \_\_\_\_\_

$FE =$  \_\_\_\_\_ because \_\_\_\_\_



JLNM is a rhombus.

$\triangle NLP$  is an equilateral triangle.

NPQR is a square.

Perimeter of heptagon JLPQRNM = \_\_\_\_\_

because \_\_\_\_\_

$m\angle JMN =$  \_\_\_\_\_ because \_\_\_\_\_

$m\angle MNL =$  \_\_\_\_\_ because \_\_\_\_\_

$m\angle LNP =$  \_\_\_\_\_ because \_\_\_\_\_

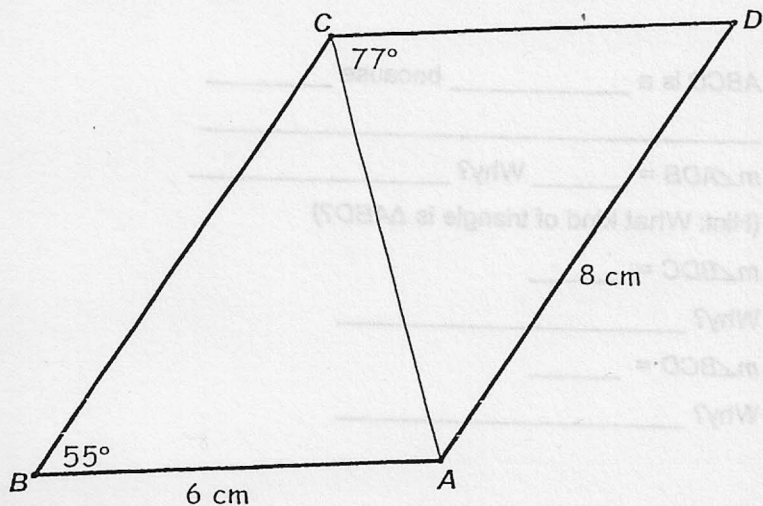
$m\angle RNP =$  \_\_\_\_\_ because \_\_\_\_\_

$m\angle MNR =$  \_\_\_\_\_ because \_\_\_\_\_

$\triangle NMR$  is scalene / isosceles / equilateral (circle one) because \_\_\_\_\_

$m\angle NMR =$  \_\_\_\_\_ because \_\_\_\_\_

Mark the figures using your knowledge of parallelograms and triangles.



$ABCD$  is a parallelogram.

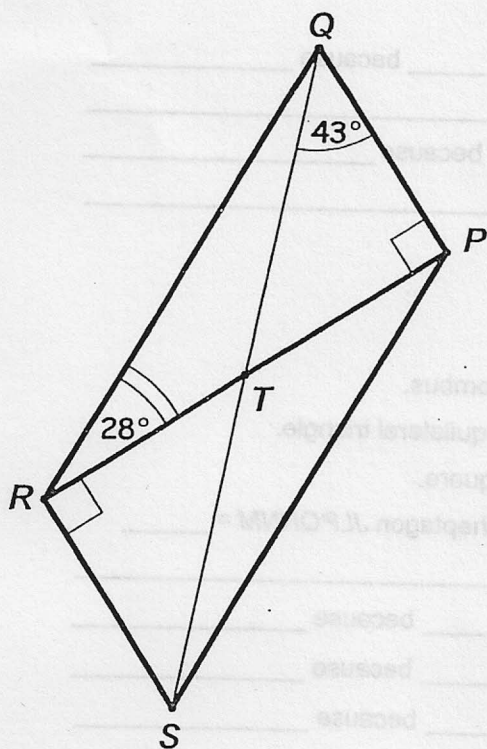
$m\angle D = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle DAC = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle CAB = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle BCA = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$CD = \underline{\hspace{2cm}}$  and  $BC = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$



$PQRS$  is a parallelogram. Its diagonals intersect at  $T$ .  $QT = 4.1$  cm.  $PR = 5.6$  cm.

Use the given measurements to find the following:

$m\angle PQR = \underline{\hspace{2cm}}$  (Hint: Look at  $\triangle PQR$ .)

$m\angle RQT = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle RTQ = \underline{\hspace{2cm}}$  (Hint: Look at  $\triangle RTQ$ .)

$m\angle STP = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle QTP = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$m\angle RSQ = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$QS = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$

$PT = \underline{\hspace{2cm}}$  because  $\underline{\hspace{2cm}}$