

Working With Parallelograms (Cont.)



Farmers create parallelograms when plowing and planting crops in fields.

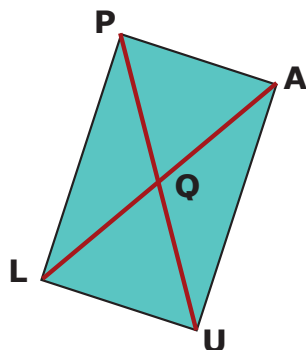
- 7 In parallelogram **PAUL**, diagonals \overline{AL} and \overline{PU} intersect at **Q**. $PA = 15$ in., $PL = 20$ in., $PU = 25$ in. Find:

a $AU =$ _____

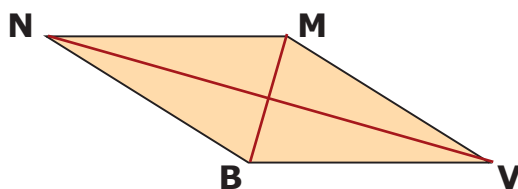
b $LU =$ _____

c $PQ =$ _____

d $QU =$ _____

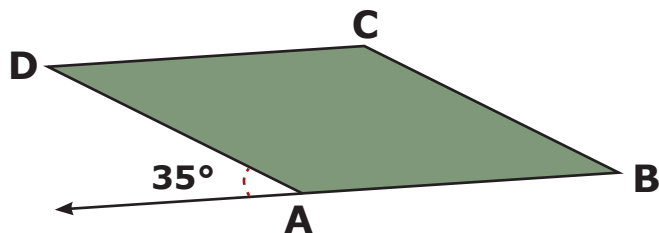


- e Based on the given measures, what type of polygon is shown and why? _____



- 8 In rhombus **VBNM**, each side is 10 cm. Diagonals \overline{NV} and \overline{BM} intersect at point **K**. If $BM = 16$ cm, use your *thinking skills* to find **NK**. Show step-by-step how you determined your answer.

- 9 Find the missing angles of parallelogram **ABCD** if the exterior angle shown is 35° . Figure **not** to scale.



a $\angle DAB =$ _____

b $m\angle D =$ _____

c $m\angle B =$ _____

d $m\angle C =$ _____