



- 1) build $LM \parallel WV$ (therefore $\angle LME=90$)
- 2) suppose $\angle XNE = \alpha \Rightarrow \angle XEN = \angle LEM = (90 - \angle XNE) = 90 - \alpha$ (from the triangle XEN)
- 3) From the triangle LME:
 $\angle MLE = (90 - \angle MEL) = 90 - (90 - \alpha) = \alpha$
- 4) From the triangles XEN and LME:
 $\cos(\alpha) = XN/EN = LE/LM$
- 5) $LM = WV$ (because WLMV – is a rectangle)
- 6) $XN/EN = LE/WV \Rightarrow XN = EN * (LE/WV) = 18 * (6/9) = 12$

Answer: $XN=12$