Name:	Date:	

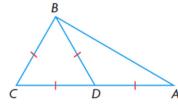
- 1. The measurements of four of the interior angles of a pentagon are 118° , 78° , 100° and 143° . What is the measure of the missing angle?
- Honeybees make honeycombs to store their honey. The base of each honeycomb is roughly a regular hexagon. Explain why a regular hexagon can be used to tile a surface.



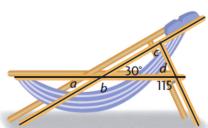
Determine the measure of each interior angle of a loonie.



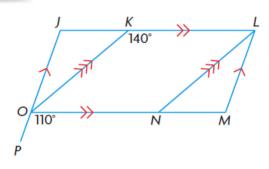
4. Prove: $\angle A = 30^{\circ}$



 A manufacturer is designing a reclining lawn chair, as shown.
Determine the measures of ∠a, ∠b, ∠c, and ∠d.



 Use the given information to determine the measures of ∠J, ∠JKO, ∠JOK, ∠KLM, ∠KLN, ∠M, ∠LNO, ∠LNM, ∠MLN, ∠NOK, and ∠JON.

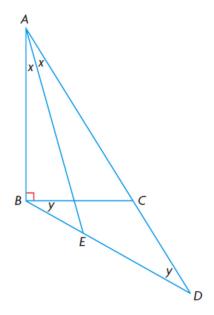


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7. Given: AE bisects $\angle BAC$.

 $\triangle BCD$ is isosceles.

Prove: $\angle AEB = 45^{\circ}$



8. $\triangle LMN$ is an isosceles triangle in which LM = LN. ML is extended to point D, forming an exterior angle, $\angle DLN$. If $LR \parallel MN$, where N and R are on the same side of MD, prove that $\angle DLR = \angle RLN$.