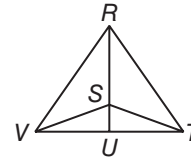


4-6 Practice

Isosceles and Equilateral Triangles

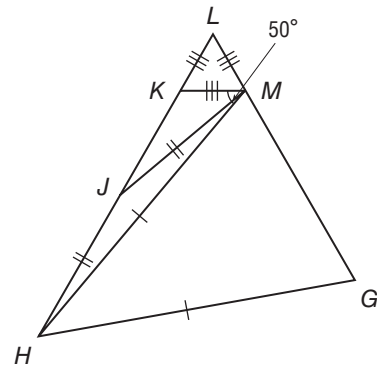
Refer to the figure at the right.



- If $\overline{RV} \cong \overline{RT}$, name two congruent angles. $\angle RTV \cong \angle RVT$
- If $\overline{RS} \cong \overline{SV}$, name two congruent angles. $\angle SVR \cong \angle SRV$
- If $\angle SRT \cong \angle STR$, name two congruent segments. $\overline{ST} \cong \overline{SR}$
- If $\angle STV \cong \angle SVT$, name two congruent segments. $\overline{ST} \cong \overline{SV}$

Find each measure.

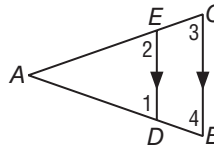
- $m\angle KML$ **60**
- $m\angle HMG$ **70**
- $m\angle GHM$ **40**
- If $m\angle HJM = 145$, find $m\angle MHJ$. **17.5**
- If $m\angle G = 67$, find $m\angle GHM$. **46**



10. **PROOF** Write a two-column proof.

Given: $\overline{DE} \parallel \overline{BC}$
 $\angle 1 \cong \angle 2$

Prove: $\overline{AB} \cong \overline{AC}$



Proof:

Statements	Reasons
1. $\overline{DE} \parallel \overline{BC}$	1. Given
2. $\angle 1 \cong \angle 4$ $\angle 2 \cong \angle 3$	2. Corr. \angle s are \cong .
3. $\angle 1 \cong \angle 2$	3. Given
4. $\angle 3 \cong \angle 4$	4. Congruence of \angle s is transitive.
5. $\overline{AB} \cong \overline{AC}$	5. If 2 \angle s of a \triangle are \cong , then the side opposite those sides are \cong

- SPORTS** A pennant for the sports teams at Lincoln High School is in the shape of an isosceles triangle. If the measure of the vertex angle is 18° , find the measure of each base angle. **81, 81**

