Name _____   Date _____

Complete with <, >, or = .
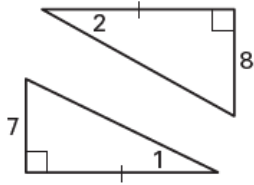
1. AB __?__ DE

2. FG __?__ LM
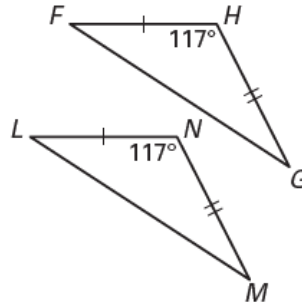
3. $m\angle 1$ __?__ $m\angle 2$

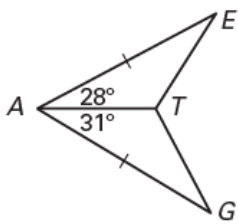4. $m\angle 1$ __?__ $m\angle 2$
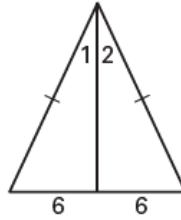
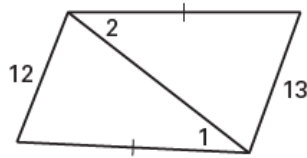5. MS __?__ LS
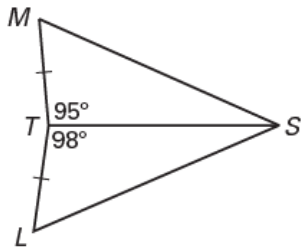
6. $m\angle 1$ __?__ $m\angle 2$
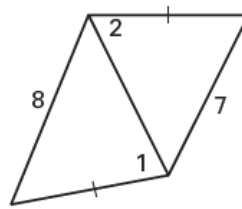
7. ET __?__ GT

8. $m\angle 1$ __?__ $m\angle 2$

Match the conclusion on the right with the given information.
Explain **your reasoning.**

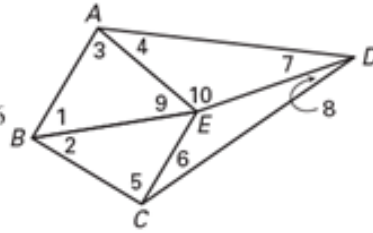10. $AB = BC, m\angle 1 > m\angle 2$

11. $AE > EC, AD = CD$

12. $m\angle 9 < m\angle 10, BE = ED$

13. $AB = BC, AD = CD$

A. $m\angle 7 > m\angle 8$

B. $AD > AB$

C. $m\angle 3 + m\angle 4 = m\angle 5 + m\angle 6$
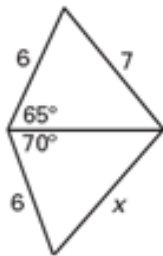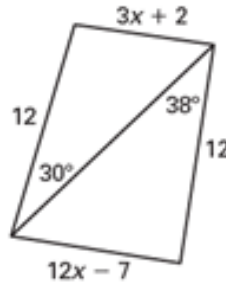
D. $AE > EC$

Write and solve an inequality thay will allow us to solve for the possible values of x.

14.

15.

16. **Shopping** You and a friend are going shopping. You leave school and drive 10 miles due west on 26th Street. You then drive 7 miles NW on Raspberry Street to the grocery store. Your friend leaves school and drives 10 miles due east on 26th Street. He then drives 7 miles SE on Cascade Street to the movie store. Each of you has driven 17 miles. Which of you is farthest from your school?