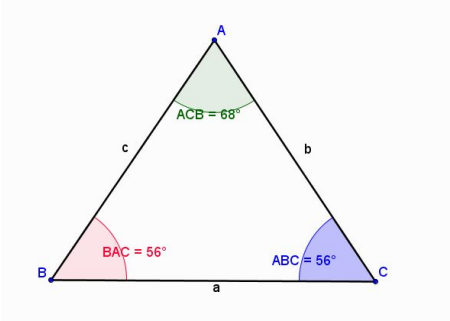
Student Activity Theorem 4

Use in connection with interactive file "Theorem 4" on the Student's CD.



Give all answers correct to the nearest degree.

1. What shape is ABC? _____

2. How many sides make up the shape ABC? _____

3. Move the point B, so that the angle ABC equals 58°. What are the measures of the angle BCA and BAC. BCA = _____. BAC = _____.

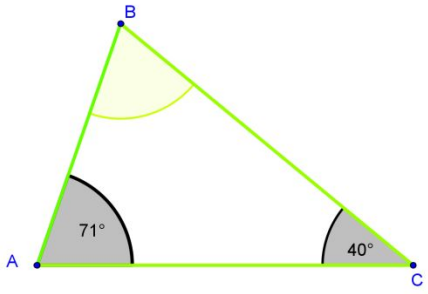
4. When angle ABC equals 58° what is the sum of the measures of the angles ABC, BCA and BAC? Measure of ABC + Measure of BCA + Measure of BAC = _____

5. Move the point C, so that the angle BCA equals 60°.
   Read the values of the angle ABC and BAC. ABC = _____. BAC = _____.

6. When the angle BCA equals 60°, what is the sum of the values of the angles BCA, ABC and BAC? Measure of ABC + Measure of BCA + Measure of BAC = _____

7. Click on the Tick Box on the interactive file to reveal the wording of this theorem.
   Did you come to this conclusion? _____.

8. What is the measure of the angle ABC in each of the following triangles?



9. What are the values of the angles ACB in each of the following diagrams?