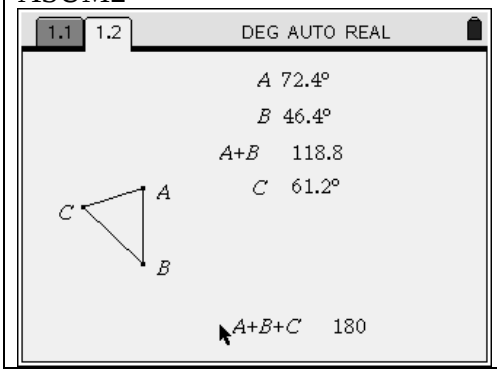
Teacher Notes

G.G.30 Investigate, justify, and apply theorems about the sum of the measures of the angles of a triangle

Lesson Launcher Objectives:

1) **Discover that the sum of the angles of a triangle is 180 degrees.**

The student will open the .tns document ASUM2  	As the student selects, grabs and drags the vertices of triangle ABC they will be able to draw a conclusion from their exploration.

1) As you dragged vertex A what measure(s) were changing? The measures of the angles and the sum A+B
2) As you dragged vertex A what measure(s) remained the same? The sum A+B+C was always 180.
3) Press CLEAR and select vertex B to drag. As you dragged vertex B what measures were changing? The measures of the angles and the sum A+B
4) As you dragged vertex B what measures remained the same? The sum A+B+C was always 180.
5) Press CLEAR and select vertex C to drag. As you dragged vertex C what measures were changing? The measures of the angles and the sum A+B
6) As you dragged vertex C what measures remained the same? The sum A+B+C was always 180.
7) From your observations and answers to the previous questions what seems to be true regarding the sum of the angles of a triangle? 180 degrees
8) Write a statement which summarizes your observations. The sum of the angles of a triangle is 180 degrees.