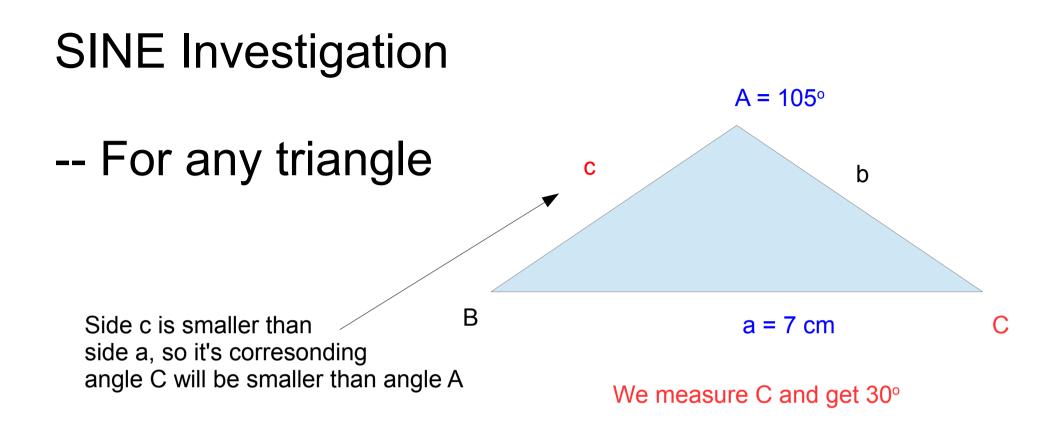


Once we measured the sides, and the angles We found:

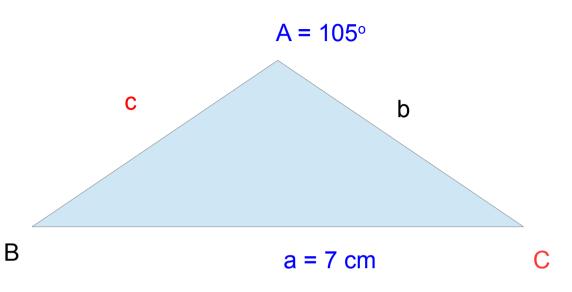
 $\underline{a} = 7 / SIN(105) = 7 / 0.9659$ SIN(A) = 7.2



$$\frac{c}{SIN(C)} = \frac{3.6}{SIN(30)} = 7.2$$

## **SINE Investigation**

We notice that the relationships both were 7.2



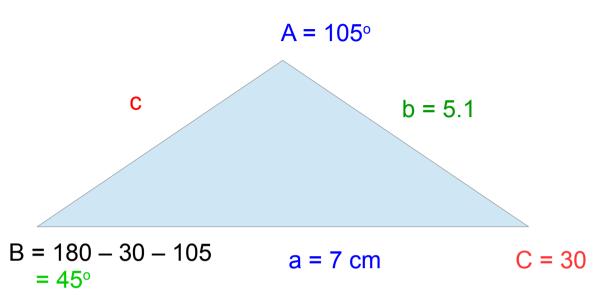
c / Sin(C) = 3.6 / Sin(30°) = **7.2** 

This does NOT mean that every side and angle Will have a relationship of 7.2.

However, it DOES mean that for each triangle the relatonship between any side and ITS OWN angle will be the same as the other sides

## **SINE Investigation**

## What can we say about side b?



b / Sin(B) = **7.2** b / Sin(45) = **7.2** 

b = 7.2 \* Sin(45)

This does NOT mean that every side and angle Will have a relationship of 7.2.

However, it DOES mean that for each triangle the relatonship between any side and ITS OWN angle will be the same as the other sides

b = 5.1



For any triangle with angles A,B, and C and sides a, b, and c, this is true:

## a / Sin(A) = b / Sin(B) = c / Sin(C)