## **Trigonometry Exploration 2b**

Now with your Triangle Partner(s), compare the ratios you calculated in the first part of this exercise and come to some agreement on the first 3 decimal values for each value. Record your answers below:

a/c =

**b/c** =

a/b =

Together with your Triangle Parners, answer the following questions:

1. What determines the shape of a triangle? Explain your answer.

2. What have you noticed about the way the sides of identically-shaped triangles compare to one-another even though they are different sizes?

3. Complete these sentences:

Triangles that are exactly t	the same shape	(	_) but have
different	are called	I	f two tri-
angles are	, then the _	(	of their cor-
responding sides will be			

In trigonometry, we can make use of these relationships to help us find misssing information about triangles, provided we have information about a triangle that is \_\_\_\_\_\_ to the one we are looking at.

