Trigonometry - Introduction to Trigonometry

Trigonometry is the study of the relationships of sides and $\qquad$ intriangles. In this unit, we will deal with right angle triangles as well as non-right angle triangles.

Right Triangles
When we are exploring triangles, we have what is called a $\qquad$ reference angle.

We use a $\qquad$ reference angle so that we can easily talk about different sides of a triangle without getting confused.

Once we have chosen our $\qquad$ angle, we refer to the three sides of the triangle as the $\qquad$ side, the adjacent side and the hypotenuse

Given the triangle below, label the opposite side, the adjacent side and the hypotenuse if angle $A$ is the reference angle.


Opposite Side: $\quad$ a
Adjacent Side:


Hypotenuse: $C$

The Ratios
When we work with right triangles we often want to solve for sides and angles. To do this, we use the three trigonometric ratios: $\qquad$ SIN $\qquad$ cos and TAN.

We can remember the role of each using:


