**Measurement Investigation**

This work must be done both individually and as a group. You will measure and record the lengths and angles of your triangle first. Then you will compare your measurements with the others in your group.

Fill in the lengths in millimeters and angle measures in degrees.

**Lengths**

*AB* =

*AC* =

*BC* =

A

B

C

**Angle measures**

****

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****

Make a table comparing the lengths and angle measures of the different triangles in your group.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Triangle 1 | Triangle 2 | Triangle 3 | Triangle 4 |
| *AB* |  |  |  |  |
| *BC* |  |  |  |  |
| *AC* |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

What are the ratios of the triangle side lengths? (There are many ways to answer this question. Investigate)

What are the ratios of the angle measures?

Can you propose a rule about how triangle side lengths and angle measures work?