

Triangle Inequality Theorem

Worksheet A: Spaghetti Triangles (Pre-Activity)

1. Gather a total of at least 4 pieces/strands of spaghetti per group
 2. Take the spaghetti and measure a 3-inch segment (mark the endpoint off with a marker)
 3. Break the spaghetti at the 3-inch point
 4. Use the remainder of the spaghettis to make one 3-inch, one 4-inch, one 5-inch, one 2-inch, and one 7-inch spaghetti segments.
 5. Check that you have a total of 6 spaghetti segments of lengths: 2", 3", 3", 4", 5", and 7" (" is a symbol for inches)
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6. Take the 3", 4", and 5" segments and connect them using the space below to make a triangle. Can you make a nice triangle? Explain.

7. Take the 2", 3", and 7" segments and connect them using the space below to make a triangle. Can you make a nice triangle? Explain.