

Math and Science Camp News

Day 4

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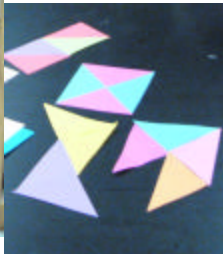
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<http://www.ipfw.edu/msc>

Campers play tangrams, examine Pythagoras' theorem and examine shapes



This afternoon, the campers worked on putting together four triangles into a series of different shapes. They then used Pythagoras's theory to determine the perimeter of each shape while recognizing that the area of each new shape must be the same. After completing this activity, the campers played tangrams, making their own set, and then tried on their finished tee-shirts.



Campers build spaghetti bridges



This morning the campers built bridges of spaghetti and hot-glue. They first started examining different 3x5 card shapes to see which would be strongest. It was found that a flat card was the weakest and a corrugated card was the strongest. They talked about why one might be stronger than another. They then proceeded to design and build bridges of spaghetti. The bridges varied in design from ones that were beautifully assembled to those that looked as if they were beaver dams.

track of their supplies to determine the final cost of their bridge. The cost was \$1,000 per strand of spaghetti, \$100 per stick of glue. The bridges were to be evaluated on three basis, cost per supported weight, weight of bridge to supported weight, and overall cost of the bridge. Bridges were tested by hanging a small bucket underneath and adding sand to the bucket until the bridge gave way.



The campers had to keep a

