Rec Lab...from previous page

the night off from homework, so we put together a table and tried several combinations. After about 20 minutes I realized that this might be a harder problem than I imagined, so I switched to a new topic and made a mental note to check this at home. That night I tried to solve the problem using the computer, programming the computer (in LogoWriter, of course) to go through the first 1000 combinations of length and width, and print out the ones which had perimeter equal to area. I left the computer on all night, confident that I would have lots of juicy ones to show my student the next day.

I won't tell you my results, because I think this is something that you should discover for yourself. However, my class and I learned a lot about rectangles and perimeter and area, some obvious things, and some not so obvious. I later brought my suspicions to the mathematics chairperson at my school, and she confirmed the classes' theorem through some simple trigonometry. To this very day I am still filled with awe at what we discovered together.

NCTM Beat...from page 2

officially disbanded, just as the Technology Advisory Committee (circa 1987) was terminated after its duties were completed. Though CLIME's original intent when we submitted the proposal to the delegate assembly was to form an ongoing advisory group that would reflect on technology issues, the TTFC will not become such a group. However, the need exists. So, given that there is not going to be an official advisory group (and I reluctantly agree that we shouldn't have another committee), then CLIME should fill that void. It seems only natural that CLIME should take on this role since CLIME is the only affiliate group whose focus is on Technology. Initially, CLIME will contact each of the standing committees to see what they are currently doing to support the use of technology. CLIME will then identify key people from each committee who will be the voice of technology for that group. These people will then form the nucleus of an informal network of people who will be "looking out for" technology in NCTM. This newsletter will report on progress in this effort. Hopefully, our annual meetings will be a forum for demonstrating the best of technology applications in which Logo will be an important player.

**I recently noticed in the bulletin I received for the Pittsburgh, PA regional meeting, that there is a technology strand and that these sessions are highlighted with a technology icon. I hope this will be the norm for all future conferences. Ironically, next to my session which clearly had technology in the title the technology symbol was omitted.*

Microworlds III...from page 8

breaks into 3 pieces. The question is: what is the probability that the 3 pieces can be used to form a triangle? (The sum of two sides must be greater than the third.) TRIANGLE.EXPS is a program that simulates this experiment. For a discussion of the probability, see Clime Connections, Volume 5. (For more information see page 16.)

Knights...from page 5

until the number of knights is a number from the binary sequence and then it starts all over again. For example, the sequence of winning chair positions for 16 to 32 knights is as follows:

16-1, 17-3, 18-5, 19-7, 20-9, 21-11, 22-13, 23-15, 24-17, 25-19, 26-21, 27-23, 28-25, 29-27, 30-29, 31-31, 32-1.

(If you subtract 16 from the knight number the relationship is less mysterious.)

Solution: To determine the winning chair take the number of knights and subtract the largest possible power of 2 that yields a positive result. Double this result and add one. Example: 28 knights. Subtract 28-16. Then double this result (12) and add 1. Result: 25.