

## Three Neat Puzzles to Try

- (1) From Games Magazine: Square Dance: Sally invited 17 guests to her party. She assigned each guest a number from 2 to 18, and kept the number 1 for herself. When everyone was dancing, Sally noticed that the sum of each couple's numbers was a perfect square. What was the number of Sally's partner?
  
- (2) From Math Teacher Magazine: The total number of angles in two regular polygons (all sides and all angles are equal) is 13, and the total number of diagonals is 25. How many sides does each polygon have?
  
- (3) Cariboo Math Contest, 1989: In a generous mood, David gave half the money he happened to have to Jim. Not to be outdone, Jim then gave one quarter of the he then had (he already had some of his own) to David. They now each ended up with 75 cents. How much money did they each have to start with?

Answers, next week.