

### Sample T.A.P.S. Problems

1. On July 5th six different people reported to the police that they had seen Bigfoot, the large hairy creature sometimes seen but never captured. The next day, twice as many people called the police; sure they had seen the creature. Each day the police received twice as many phone calls as the day before. After they got a total of more than 300 phone calls, the police took the phone off the hook! On what day did the police receive their 300th phone call?

2. James ran down the stairs to the subway and got in line for a token. He gave the clerk \$1.00 for a token and got back 36 cents. List all the possible combinations of the coins that James could have received for his change.

3. Keri's father, Bill, was a baker. Out of his usual morning batch of chocolate chip cookies, Bill burned the first two dozen cookies. He gave half of what was left to Keri to take to school. He wrapped up half of the remaining cookies and gave them to the gas station crew next door. He gave half of what was left to a policeman upstairs. If Bill had only 7 cookies left, how many cookies were in the batch of chocolate chip cookies?

4. Bill, his sister Martha, and Ann are sitting down to learn a new game from Phil Hill. Each player has a partner and the partners are seated across the table from each other. Bill Dill is sitting to the right of Phil's sister. Phil Hill is sitting to the right of Bill's sister's partner. Where is each player sitting at the table?

5. At Marvelous Mark's T-Shirts, you can win a free T-shirt if you can solve the pebble puzzle. Next to the jar at the entrance is this information:

- There are 825 pebbles in the jar.
  - There are 375 more brown pebbles than white pebbles.
- Guess the number of brown and white pebbles in the jar.