1. How many triangles can you count in this drawing of a cat?

2. A tree doubled in height each year until it reached its maximum height in 20 years. How many years did it take this tree to reach half its maximum height?

3. A train one mile long travels at a rate of one mile per minute through a tunnel that is one mile long. How long will it take the train to pass completely through the tunnel?

4. Try to figure out a way to make change for a dollar that uses exactly 50 coins.

5. If 3 bananas are worth 2 oranges, how many oranges are 24 bananas worth?

6. Would you be richer if you had a bucket of nickels or half a bucket of dimes?

7. A snail starts at the bottom of a well 10 feet deep and crawls up 3 feet each day. Each night, however, the poor thing slips back 2 feet. How long will it take the snail to reach the top of the well?

8. Write an expression equal to 100 that uses seven 4’s and the addition sign. No other symbols can be used.

9. Try to put the numbers 1 to 9 in the nine circles below so that the numbers along each side of the triangle add up to 20. Each number can be used only once.

10. One day a chemist claimed to have discovered a liquid that would dissolve anything. What is wrong with his claim?

**SCORING KEY**

9 or 10 -- Professional Genius
7 or 8 -- Super Genius
5 or 6 -- Genius
4 or less -- Genius of the Future