

March 2009

Solutions will be provided next month.

- 1) How many different four-digit numbers can be formed by arranging the digits 2, 2, 8, and 9?
- 2) Suppose you are flying in an airplane at an altitude of 37,000 feet. How far, along the Earth's surface, is your line-of-sight horizon from the point on the Earth's surface directly below you? In other words, how far can you see? Assume the Earth's surface is a perfect sphere with a radius of 3960 miles.