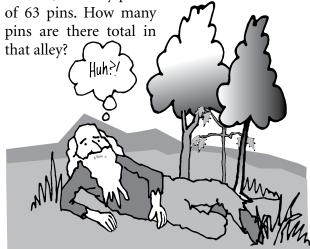
by Don Crossfield Retired Educator Roseburg, Oregon



16-5

Rip Van Winkle awakens to hear sounds of bowling; LOUD sounds of bowling! He observes that some small forest creatures have fashioned a bowling alley with a large triangle of pins at the end, so many pins that the last row consists

 $\Xi(C(O) \setminus D)$



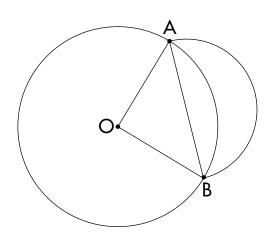
16-6

Find 4 distinct positive integers so that the sum of any three of them is a perfect square.



16-7

In a circle with right angle AOB, a semicircle is constructed, whose diameter is AB. The portion of the semicircle that is outside circle O is called a "lune." What is the ratio of the area of the lune to the area of triangle AOB?



16-8

For what natural number values of *n* does the expression $(2016 + \frac{1}{2})^n + (2017 + \frac{1}{2})^n$ represent an integer?

