

## THE COCONUT PUZZLE

There were five men, a monkey, and a huge pile of coconuts on an island. The men decided to divide the coconuts evenly among them the following morning. During the night one man went, divided the coconuts into five equal piles and found that there was one over. He threw it to the monkey, hid one pile, put the remaining coconuts into a pile and left. The second man went and divided the coconuts that were left into five equal piles and found that there was one over. He threw it to the monkey, hid one pile, put the remaining coconuts into a pile and left. The other three men in turn did the same thing. The next morning they all pretended innocence and went and divided the coconuts into five equal piles and found that there was one over which they threw to the monkey. What is the smallest number of coconuts for which all that is possible if no coconuts are broken?