3-1. What is the greatest difference in the perimeters of two rectangles whose sides have integral lengths and whose area are both 25?

3-2. What are five positive integers whose mean and median are both 5 and whose only mode is 8? [Note: Write the numbers in ascending order.]

3-3.   If x and y are acute angles whose sum is 60°, what is the largest possible value of $(\tan x)(\tan y)$?

3-4.   In a 75m race, if Ace give Flash a 15m head start, Ace and Flash will tie. If Flash gives Speedy a 15m head start, Flash and Speedy will tie. At these rates, how many meters head start should Ace give Speedy for Ace and Speed to tie in a 75m race?

3-5.   If f and g are linear functions such that $g(f(x)) = 2x + 6$, and the graph of $y = f(g(x))$ passes through the origin, what is the value of $f(g(2021))$?

3-6.   Two perpendicular diameters are drawn in a circle, as shown. From an endpoint of one of them, chords that intersect the other diameter at different points drawn are as shown. The horizontal diameter splits one of the chords into a 2:1 ratio and the other into a 3:1 ratio. What is the square of the ratio, bigger to smaller, of the lengths of the two chords?