For positive integers k, r, and $n \geqslant k+1$, the iterated floor function $f_{k,r}$ is defined by

$$f_{k,r}(k+1) = r;$$

$f_{k,r}(n)=$

$$\lfloor n/n - kf_{k,r}(n-1) \quad \rfloor, \quad n > k+1$$

.

A special case ($k = r = 3$) of this function occurs as an upper bound on the number of 3-subsets, excluding tetrahedra, of an n-set (Turàn's problem). For certain values of k and r, this note establishes closed form expressions for $f_{k,r}$, then uses them to prove some interesting properties.