$\begin{array}{c} 02405 \ \mathrm{Probability} \\ 2004\text{-}2\text{-}4 \\ \mathrm{BFN/bfn} \end{array}$

Solution for exercise 1.3.1 in Pitman

Denote the fraction the neighbor gets by x. Then your friend gets 2x and you get 4x. The total is one, thus $x = \frac{1}{7}$ and you get $\frac{4}{7}$.