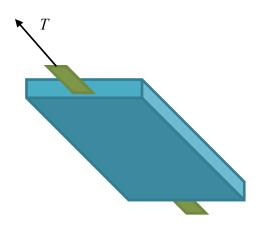
15. A random force T is applied to pull a bookmark with a width of 1 in. The weight of the book is $W \sim N(12, 0.15^2)$ lb, and the coefficient of static friction between the bookmark and the paper is μ_s =0.6. If the pages are 8 in. (width) by 10 in. (length), determine the distribution of the minimum force T that will make the bookmark start to move out. Assume the pressure on each page and the bookmark is uniform.



Solution: The minimum force is $T \sim N(0.9, 0.0113)$ lb.