

Questions may be answered with R code or unsimplified math.

1. Calculate the expected value of a three sided die with probabilities 0.1, 0.4, 0.5 of landing on 2, 4, 5, respectively.
2. Like percentiles (quantiles) the cumulative distribution function references area in which direction relative to its argument?
3. How much area is beneath a probability density function at a single point, say a ?
4. What is the name of a function associated with a discrete random variable?