

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.

$$2 * 0.1 + 4 * 0.4 + 5 * 0.5$$

2. Like percentiles (quantiles) the cumulative distribution function references area in which direction relative to its argument?

less than

3. How much area is beneath a probability density function at a single point, say a ? 0.

4. What is the name of a function associated with a discrete random variable? probability mass function