1. How many head do we expect to get in 10 tosses of a fair coin?
   1. 1
   2. 5
   3. 10
   4. 0
2. What is pmf ?
   1. Probability mass function
   2. Cumulative distribution function
3. What is cdf?
   1. Probability mass function
   2. Cumulative distribution function
4. What is the expected value for the following distribution of a discrete random variable X?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | 1 | 2 | 3 | 4 |
| P(X=x) | 0.4 | 0.2 | 0.3 | 0.1 |

1. 1
2. 2
3. 2.1
4. 5.5
5. 1.09
6. What is the variance of the above X variable?

a. 1

b. 2

c. 2.1

d. 5.5

e. 1.09