

Math 5710

Expected Value or Average Value of a Discrete Random Variable

Draw once from the box [1 , 1 , 2 , 2 , 2 , 3] and let X = number drawn.

a) With 120 draws, how many 1's do you expect to see? How many 2's?
How many 3's? On average, what do you expect the value of X to be?

b) With 240 draws, how many 1's do you expect to see? How many 2's?
How many 3's? On average, what do you expect the value of X to be?

c) With 6 trillion draws? how many 1's do you expect to see? How many 2's?
How many 3's? On average, what do you expect the value of X to be?

d) With one draw, what do you expect the value of X to be?