

Answer on Question #71838 – Math – Statistics and Probability

Question

A shipment of five computers two or that are slightly defective. If a retailer receives three of these computers at random, list the elements of the sample space S using the letter P and N for defective and non-defective computers respectively. To each sample point assign a value X of the random variable X representing the number of computers purchased by the retailer which are slightly defective.

Solution

The Sample space S is the following

1. 3 non-defective, NNN
2. 2 non-defective and 1 defective, PNN
3. 1 non-defective and 2 defective, PPN

Let X be the random variable representing number of computers purchased being defective

1. $NNN, X=0$
2. $PNN, X=1$
3. $PPN, X=2$