
The probabilistic distribution of monthly sales of a certain item is as follows
Monthly sales: $\begin{array}{cccccccc} & 0 & 1 & 2 & 3 & 4 & 5 & 6\end{array}$ Probability $:-0.020 .050 .300 .270 .400 .100 .06$
The cost of carrying inventory is Rs. 10 per unit per month. The current policy is to maintain a stock of four items at the begining of each month. Assuming the cost of shortage is proportional to both time and quantity shortage obtain the estimated cast of shortage of one item for one unit.

