Here are some questions which use the concepts developed in class today:

1. On average, I bake 50 cookies a week.
(a) What can you say about the probability I make 75 or more cookies in a given week? The answer should be in the form an upper bound.
(b) Can you devise a scenario where I reach this upper bound?
2. The variance of a week's baking output is known to be 25 .
(a) What can you say about the probability that this week's production is between 40 and 60 ? The answer should be in the form of an upper bound.
(b) Can you devise a scenario where I reach this upper bound?
