12	A manufacturer of steel rods checks the length of each rod in randomly selected batches of 10 rods	}.
	100 batches of 10 rods are checked and x , the number of rods in each batch which are too long, is recorded.	s
	Summary statistics are as follows.	
	$y = 100 \qquad \qquad \sum x = 210 \qquad \qquad \sum x^2 = 604$	
	(a) Calculatethe mean number of rods in a batch which are too long,	
	• the variance of the number of rods in a batch which are too long. [3]
	Layla decides to use a binomial distribution to model the number of rods which are too long in a patch of 10.	a
	(b) Write down the parameters that Layla should use in her model. [2]	1
	c) Use Layla's model to determine the expected number of batches out of 100 in which there are exactly 2 rods which are too long. [3]	