

Question 10.13.1.22 The probability of getting a bad egg in a lot of 400 is 0.035. The number of bad eggs in the lot is

**Solution:**

parameters	values	description
X	0	good egg
	1	bad egg
n	400	Total number of eggs
p	0.035	Probability of getting a bad egg

TABLE 0  
TABLE

$$\text{Let } \Pr(X = k) = \begin{cases} 1 - p & k = 0 \\ p & k = 1 \end{cases}$$

$$\text{Bad eggs} = p \times n$$

$$\text{Bad eggs} = 14$$