

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: Let

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

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

(1)

Bad eggs

$$= \Pr(X = 1) \times n$$

(2)

$$= 14$$

(3)