



The random variable $X\~B\left(12,\frac{1}{6}\right)$. Find:

1. $P\left(X=2\right)$
2. $P\left(X=9\right)$
3. $P\left(X\leq 1\right)$

A company claims that a quarter of the bolts sent to them are faulty. To test this claim the number of faulty bolts in a random sample of 50 is recorded.

(a) Give two reasons why a binomial distribution may be a suitable model for the number of faulty bolts in the sample. (2)





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