

**1. Nov/2022/Paper\_9709\_51/No.2**

The residents of Persham were surveyed about the reliability of their internet service. 12% rated the service as 'poor', 36% rated it as 'satisfactory' and 52% rated it as 'good'.

A random sample of 8 residents of Persham is chosen.

- (a) Find the probability that more than 2 and fewer than 8 of them rate their internet service as poor or satisfactory. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

A random sample of 125 residents of Persham is now chosen.

- (b) Use an approximation to find the probability that more than 72 of these residents rate their internet service as good. [5]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....





