***Essam Shenhab***

1🡪 b.  Poisson distribution

2🡪 a. The probability of an event occurring given that another event has occurred

3🡪 a. Calculate the probability of an event occurring given prior knowledge

4🡪 a. The probability of event A occurring given event B has occurred

5🡪 b. It is symmetric around its mean

6🡪 d. It is used to model the number of events occurring in a fixed interval of time or space

7🡪 a. P(A) \* P(B)

8🡪 c. The events cannot occur together

9🡪 a. The spread or dispersion of the distribution

10🡪 b. Sample size and probability of success

11🡪 a. 0

12🡪 d. The total probability space

13🡪 b. It is used to model the time until the next event occurs

14🡪 b. The probability of event A occurring given event B has occurred

15🡪 a. Constant within a specified range

16🡪 a. It models the number of successes in a fixed number of independent trials

17🡪 a. P(A and B) = P(A) \* P(B)

18🡪 c. 68%

19🡪 a. When the number of trials is fixed and the probability of success is constant

20🡪 b. The probability of an event occurring within a specified range

21🡪 b. 8/13

22🡪 b. 26/52

23🡪 b. 1/9

24🡪 c. 7/12

25🡪 c. 3/8