

Geometric Distribution - Exercises (1 page; 14/2/26)

(1) Repeated independent trials of an experiment are carried out. On each trial the probability of success is $\frac{1}{10}$.

(i) Find the probability that the 1st success occurs after the 6th trial.

(ii) Find the probability that the 3rd success occurs on the 6th trial.

(iii) Find the smallest value of n such that the probability of at least one success in n trials is more than $\frac{9}{10}$.

(2) Repeated independent trials of an experiment are carried out. On each trial the probability of success is $\frac{1}{5}$.

(i) Find the probability that the 1st success occurs after the 5th trial.

(ii) Find the probability that the 2nd success occurs on the 10th trial.