

50. A safety engineer feels that 35% of all industrial accidents in her plant are caused by failure of employees to follow instructions. She decides to look at the accident reports (selected at random and replaced in the pile after reading) until she finds one that shows an accident caused by failure of employees to follow instructions.
- (a) Define the random variable and give its distribution.
 - (b) What is the probability that she looks at four accident reports before finding an accident caused by failure of employees to follow instructions?
 - (c) What is the probability that she looks at at most five accident reports before finding an accident caused by a failure of employees to follow instructions?
 - (d) How many reports should she expect to review before she finds one where the accident was caused by a failure of employees to follow instructions?