

A box contains 24 light bolbs, of which two are defective. If a person selects
10 holbs at random, without replacement, what is the prob. Heat 60+4
defective bulbs will be selected?

$$\rho = \frac{\binom{2}{2}\binom{22}{8}}{\binom{24}{10}} = \left(\begin{array}{c} 22\\8\\ \end{array}\right)$$

8) There are 4 books on fairly tales, S novels and 3 plays. In how many ways can you arrange, these so that books or lairly tales are together, had are together and plays are together and in the order, books on fairly tale, had said plays.

O Each year starts on one of the seven tays a Csurfay through Saturday). Each year is either a leap year Lit inchices Feb. 29 or not) How many different calabas are possible for a year? 2.7=(4) 2) Three different classes contain 20, 18, and 25 statests, respectively, at no student is a member of more than one class. If a teath is to be composed of one student from each of these three clases in how many differs t ways can the mansors of the team be chosen 20 × 18 C3 + 25 C3 = 20 × 18 × 25 = 9000 6543 3 If four dice are rolled, what is the prob. that each of the six the four numbers will be different? (1) If six like are rolled, what is the prob of the six lift water will appear exactly one? Alle (3)