

$$P(A) = \frac{11}{36}$$

B.

$$\{(1,5)(5,1)(4,2)(2,4)(3,3)\}$$

$$P(B) = \frac{5}{36}$$

$$(A \cap B) = (2, 4) (4, 2)$$

$$P(A/B) = \frac{2}{36}$$

$$P(A/B) = \frac{P(A \cap B)}{P(B)} = \frac{\frac{2}{36}}{\frac{5}{36}} = \frac{2}{5}$$

12. In how many different ways can 5 red, 3 blue, and 4 green bulbs be arranged in a Christmas tree lights with 12 sockets?

SOLUTION:

$$\begin{aligned} P &= \frac{n}{n_1! n_2! n_3!} \\ &= \frac{(5)(3)(4)}{12!} \\ &= \frac{17280}{12!} \\ &= \mathbf{27720} \end{aligned}$$

13. If $P(A) = \frac{1}{2}$, $P(B) = \frac{1}{3}$, $P(A \cup B) = \frac{1}{2}$ determine:

- $P(B/A)$
- $P(A/B)$

SOLUTION:

$$\begin{aligned} \text{A. } P(B/A) &= \frac{P(A \cap B)}{P(A)} = \frac{\frac{1}{6}}{\frac{1}{2}} = \frac{2}{3} \text{ or } \frac{1}{3} \\ 4 - x + x + 3 - x &= 6 \\ 7 - x &= 6 \\ -x &= -1 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} \text{B. } P(A/B) &= \frac{P(A \cap B)}{P(B)} = \frac{\frac{1}{6}}{\frac{1}{3}} = \frac{1}{2} \\ P(B) &= S - B = 1 - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4} \quad P(A \cap B) = 1/4 \end{aligned}$$

14. How many ways can you line up the 5 persons?

SOLUTION:

$$5 \times 4 \times 3 \times 2 \times 1 = \mathbf{120}$$

15. Consider another example where a pack contains 4 blue, 2 red and 3 black pens. If a pen is

drawn at random from the pack, replaced and the process repeated 2 more times. What is the probability of drawing 2 blue pens and 1 black pen?

SOLUTION:

Here, total number of pens = 9

Probability of drawing 1 blue pen = $4/9$

Probability of drawing another blue pen = $4/9$

Probability of drawing 1 black pen = $3/9$

Probability of drawing 2 blue pens and 1 black pen = $4/9 \times 4/9 \times 3/9 = \mathbf{8/81}$

16. At a car park there are 100 vehicles, 60 of which are cars, 30 are vans and the remainder are lorries. If every vehicle is equally likely to leave, find the probability of:

- van leaving first.
- lorry leaving first.
- car leaving second if either a lorry or van had left first.

SOLUTION:

a) Let S be the sample space and A be the event of a van leaving first.

$$n(S) = 100$$

$$n(A) = 30$$

Probability of a van leaving first:

b) Let B be the event of a lorry leaving first.

$$n(B) = 100 - 60 - 30 = 10$$

Probability of a lorry leaving first:

c) If either a lorry or van had left first, then there would be 99 vehicles remaining, 60 of which are cars. Let T be the sample space and C be the event of a car leaving.

$$n(T) = 99$$

$$n(C) = 60$$

17. A pack contains 4 blue, 2 red and 3 black pens. If 2 pens are drawn at random from the pack, NOT replaced and then another pen is drawn. What is the probability of drawing 2 blue pens and 1 black pen?

SOLUTION:

Probability of drawing 1 blue pen = $4/9$

Probability of drawing another blue pen = $3/8$

Probability of drawing 1 black pen = $3/7$

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