

1. $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

2. ${}_n P_r = P(n, r) = \frac{n!}{(n-r)!}$

3. ${}_n C_r = C(n, r) = \frac{n!}{r!(n-r)!}$

4. From raw data:

$$\text{mean} = \bar{x} = \frac{\sum x}{n}$$

$$\text{standard deviation} = \text{s.d.} = s = \sqrt{\frac{\sum (x - \bar{x})^2}{n-1}}$$

6. The following table represents the number of different possible results when two dice are rolled.

	1	2	3	4	5	6
1	(1, 1)	(1, 2)	(1, 3)	(1, 4)	(1, 5)	(1, 6)
2	(2, 1)	(2, 2)	(2, 3)	(2, 4)	(2, 5)	(2, 6)
3	(3, 1)	(3, 2)	(3, 3)	(3, 4)	(3, 5)	(3, 6)
4	(4, 1)	(4, 2)	(4, 3)	(4, 4)	(4, 5)	(4, 6)
5	(5, 1)	(5, 2)	(5, 3)	(5, 4)	(5, 5)	(5, 6)
6	(6, 1)	(6, 2)	(6, 3)	(6, 4)	(6, 5)	(6, 6)