

1982 FI2.4

一個袋有 15 個球，其中 3 個是紅色。從中抽取一個，問抽到紅球的概率為何？

There are 15 balls in a bag, of which 3 are red.

What is the probability of drawing a red ball ?

1984 FI3.3

一袋內有紅球 10 個，白球 10 個。若隨意於袋內取球一個，而該球為白色之機會為 x ，求 x 的值。

One ball is taken at random from a bag containing 10 red balls and 10 white balls. If x is the probability that the ball is white, find the value of x .

1985 FSI.3

一袋內有 50 個白球，100 個紅球。若隨意於袋內取一球，而該球為白色之概率為 $\frac{c}{6}$ ，求 c 的值。

One ball is taken at random from a bag containing 50 white balls and 100 red balls. If $\frac{c}{6}$ is the probability that the ball is white, find the value of c .

1986 FI5.1

投擲一骰子，若擲出質數之或然率為 $\frac{a}{72}$ ，求 a 的值。

A die is rolled. If the probability of getting a prime number is $\frac{a}{72}$,

find the value of a .

1994 FG6.3

若任意選擇一個有三十一日的月份，求該月有五個星期天的機率 c 。

If a 31-day month is taken at random, find c , the probability that there are 5 Sundays in the month.

1999 FG4.4

一個袋子裏有 d 個球，其中 x 個是黑球， $x + 1$ 個是紅球， $x + 2$ 個是白球。

若從袋裏隨機抽出一個黑球之概率小於 $\frac{1}{6}$ ，求 d 之值。

A bag contains d balls of which x are black, $x + 1$ are red and $x + 2$ are white.

If the probability of drawing a black ball randomly from the bag is less than $\frac{1}{6}$,

find the value of d .

2010 FGS.3

若 P 是等邊三角形 ABC 內部的隨意一點，求 $\triangle ABP$ 的面積同時大於 $\triangle ACP$ 及 $\triangle BCP$ 的面積的概率。

If P is an arbitrary point in the interior of the equilateral triangle ABC , find the probability that the area of $\triangle ABP$ is greater than **each** of the areas of $\triangle ACP$ and $\triangle BCP$.

Answers

1982 Final I2.4 $\frac{1}{5}$	1984 FI3.3 $\frac{1}{2}$	1985 FSI.3 2	1986 FI5.1 36	1994 FG6.3 $\frac{3}{7}$
1999 FG4.4 3	2010 FGS.3 $\frac{1}{3}$			