

**APPLICATION OF QUEUING THEORY TO WOMEN'S ICC
WORLD T20 CRICKET**

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Abstract: This paper applies queuing theory to women's ICC world T20 cricket matches. In women's T20 match, two opening batswomen open the innings from which one can find the service rate and the arrival rate for the pitch. Other batswomen are waiting in the dressing room for their bating. We want to determine the probability of winning and losing a women's T20 match. We also seek to determine the probability of winning by first innings and second innings in a women's T20 match.

Keywords and Phrases: Queue, Queuing theory, women's T20 match, batswomen.
2010 Mathematics Subject Classification: 60K25, 60K30.

1. Introduction

Women's T20 cricket is the new emerging format in women's cricket. The rules of T20 game are the same for both men and women. The first T20 international match was held in August 2004 between England & New Zealand women's cricket Teams, six months before the first T20 international match was played between two men's teams. A women's Twenty 20 international (WT20) is a twenty over's per-side cricket match played in a maximum of 150 minutes between two of the top 10 ranked countries of the International Cricket Council (ICC) in terms of women's cricket. The ICC women's world Twenty20 was first held in 2009.