

BC JD Pentathlon Tables

Introduction

1. Target points for each age gender category is the average score per event from top ten pentathlon results in the 1998 JD Best Performance Book rounded and smoothed to reflect a logical progression through age and gender categories.
2. Similarly Target Performances are top ten average top ten pentathlon performances.
3. Constant "b" represents performances deemed to result in zero points.
4. Constant "c" is the IAAF value, reflecting the shape of the event performance curves through their statisticians' analysis of thousands of multi event results.
5. Constant "a" is solved for the Targets, i.e. Target Points/(ABS(b-Target Performance) ^c)
6. Equivalent performance has been calculated for the new events (i.e. 4 pound shot put, 3 kg shot put and 60 metre hurdles) based on available empirical evidence and best judgement.
7. The purpose of this scoring system is to provide a fair measure of performance through the age and gender categories and between the five events. This was not happening under the old system of using the IAAF Women's Tables.
8. This table will be evaluated annually by the JD Committee to ensure it reflects current levels of pentathlon performance and meets its intended purpose.
9. The JD Committee will provide a computer model in, for example, EXCEL to clubs hosting JD Pentathlon meets.

Formula

Points = (rounded to nearest 5 points)	$\text{INT}(a*(m-b)^c)$
Constants	
a	12.076
b	17.93
c	1.835
m =	performance in seconds

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