

Section 1.5: cont'd

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8:39 AM

example: In the 2000 Sydney Olympics, Yelena Prokhorova of Russia won the long jump with distance 660 cm. The mean and standard deviation for jumps at this event was $\bar{x} = 600$ cm with $s = 30$ cm.

If long jump distances are known to be normal-shaped, then on average what proportion of competitors would finish ahead of her?

