



## TRIATHLON | SWIMMING | CYCLING | RUNNING | ST

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### CADENCE & STRIDE LENGTH

**EXAMPLE (Excel created by Coach Zee, Link available at the bottom of document)**

Input / Output	Mins	Secs	Calculated Value	Notes
Pace (Mins: Secs) / Km	7	26	7.433333333	Convert Mins:Sec into Minutes
SPM	158		158	Steps per minute
Speed (in m/min)			134.529148	Speed in meter / min :: [1000/Pace in mins]
Stride Length =			0.851450304	Speed(in m) / Cadence
<b>Stride Length</b>			<b>0.85 meter</b>	<b>Stride length / Stride</b>

### SOME GENERAL GUIDELINES:

Runners Height	Jogging Stride (m)	Running Stride (m)
5'5" (1.65 m)	0.68 m	1.20–1.40 m
6'0" (1.83 m)	0.75 m	1.40–1.80 m

For **jogging**, a stride length of **≈41% of height** is common.

For **running/sprinting**, it can be **100%–120% of height**.

Example: A **6-foot** runner might have:

Jogging stride: **≈0.75 m**

Fast running: **1.5–2.2 m**

Level	Typical Cadence (SPM)
Casual joggers	140–160
Efficient runners	165–180
Elite runners	180–200+

**170–180 spm** is considered **ideal for efficient distance running**.

Lower cadence (<160) may mean **overstriding**, which can increase injury risk.

**Higher cadence** reduces ground contact time and improves rhythm/form.

### WHAT'S CONSIDERED "GOOD"?

Metric	Good Range	Notes
<b>Stride Length</b>	1.2–1.5 m for runners	Depends on height and pace
<b>Cadence</b>	170–180+ spm	Efficient, reduces injury risk
<b>Stride/Height Ratio</b>	0.9–1.1 (running)	>1.0 for sprinting; ≈0.4–0.5 for jogging

### IDEAL COMBINATION FOR MOST DISTANCE RUNNERS:

<b>Cadence:</b> 170–180 spm
<b>Stride length:</b> Adjusted so you're not overstriding or heel-striking
<b>Form:</b> Upright posture, slight forward lean from ankles, midfoot strike

Link to download excel to calculate Stride Length:

<https://tinyurl.com/StrideCalculator>