

Computation of Mean and Standard Deviation Using Grouped Data  
 efg, 12 Aug 2004

	A	B	C	D	E	F	G	H	I	J	K
1		x		x	f						
2		62		62	1						
3		67		67	4						
4		67		72	8						
5		67		77	11						
6		67		82	6						
7		72		87	7						
8		72		92	3						
9		72		N	40	SUM(E2:E8)					
10		72		Mean	78.25	SUMPRODUCT(D2:D8,E2:E8)/E9					
11		72		St.Dev.	7.66	{=SQRT((SUM((D2:D8)^2*E2:E8/E9) - E10^2)*E9/(E9-1))}					
12		72				Note: braces mean "array" function					
13		72				press Ctrl-Shift-Enter instead of just Enter					
14		72									
15		77				Note: N/(N-1) term corrects from sample to population					
16		77				See Eqn 7.4, Data Analysis for Scientists and Engineers, 1975.					
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26		82									
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31		82									
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36		87									
37		87									
38		87									
39		92									
40		92									
41		92									
42	N	40	COUNT(B2:B41)								
43	Mean	78.25	AVERAGE(B2:B41)								
44	St.Dev.	7.66	STDEV(B2:B41)								