

Confidence intervals

MTB > describe the data in c4 please

	N	MEAN	MEDIAN	TRMEAN	STDEV	SEMEAN
ROT	54	9.407	8.000	9.042	7.147	0.973

	MIN	MAX	Q1	Q3
ROT	0.000	26.000	4.000	15.000

MTB > zinterval with 95 percent confidence and sigma = 7.147 for data in c4

THE ASSUMED SIGMA =7.15

	N	MEAN	STDEV	SE MEAN	95.0 PERCENT C.I.
ROT	54	9.407	7.147	0.973	(7.498, 11.316)

MTB > set c10

DATA> 4900 4750 4820 4710 4760 4300 4570 4680 4800 4670

DATA> end

MTB > name c10 'Carbon14'

MTB >

MTB > descr c10

	N	MEAN	MEDIAN	TRMEAN	STDEV	SEMEAN
Carbon14	10	4696.0	4730.0	4720.0	166.2	52.6

	MIN	MAX	Q1	Q3
Carbon14	4300.0	4900.0	4645.0	4805.0

MTB > tint c10

	N	MEAN	STDEV	SE MEAN	95.0 PERCENT C.I.
Carbon14	10	4696.0	166.2	52.6	(4577.1, 4814.9)