

Analysis of Cavendish's density data... via SAS

```
Proc means data=sasuser.density;
run;
```

Analysis Variable : DENSITY

N	Mean	Std Dev	Minimum	Maximum
29	5.4196552	0.3388793	4.0700000	5.8600000

```
Proc univariate data=sasuser.density;
run;
```

Univariate Procedure

Variable=DENSITY

Moments

	N	29	Sum Wgts	29
Mean	5.419655	Sum	157.17	
Std Dev	0.338879	Variance	0.114839	
Skewness	-2.32906	Kurtosis	8.487985	
USS	855.0227	CSS	3.215497	
CV	6.252783	Std Mean	0.062928	
T:Mean=0	86.12429	Pr> T	0.0001	
Num ^= 0	29	Num > 0	29	
M(Sign)	14.5	Pr>= M	0.0001	
Sgn Rank	217.5	Pr>= S	0.0001	

Quantiles(Def=5)

	100% Max	5.86	99%	5.86
	75% Q3	5.61	95%	5.85
	50% Med	5.46	90%	5.79
	25% Q1	5.3	10%	5.1
	0% Min	4.07	5%	4.88
			1%	4.07
Range	1.79			
Q3-Q1	0.31			
Mode	5.29			

Extremes

Lowest	Obs	Highest	Obs
4.07(	10)	5.65(	28)
4.88(	7)	5.75(	21)
5.1(	23)	5.79(	20)
5.26(	13)	5.85(	27)
5.27(	26)	5.86(	24)

```
Proc reg data=sasuser.density;
model density = ; run;
```

Dependent Variable: DENSITY

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	0	0.00000	.	.	.
Error	28	3.21550	0.11484		
C Total	28	3.21550			

Root MSE	0.33888	R-square	0.0000
Dep Mean	5.41966	Adj R-sq	0.0000
C.V.	6.25278		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob >  T
INTERCEP	1	5.42	.063	86.1	0.0001

----- how data were read in and dataset set up -----

```
data sasuser.density;
```

```
input density;
```

```
lines;
```

```
5.50
```

```
5.57
```

```
5.42
```

```
5.61
```

```
5.53
```

```
5.47
```

```
4.88
```

```
5.62
```

```
5.63
```

```
4.07
```

```
5.29
```

```
5.34
```

```
5.26
```

```
5.44
```

```
5.46
```

```
5.55
```

```
5.34
```

```
5.30
```

```
5.36
```

```
5.79
```

```
5.75
```

```
5.29
```

```
5.10
```

```
5.86
```

```
5.58
```

```
5.27
```

```
5.85
```

```
5.65
```

```
5.39
```

```
;
```

```
run;
```