

### Ten rows and five columns of the fat data set

Obs	case	fat_brozek	fat_siri	dens	age
1	1	12.6	12.3	1.0708	23
2	2	6.9	6.1	1.0853	22
3	3	24.6	25.3	1.0414	22
4	4	10.9	10.4	1.0751	26
5	5	27.8	28.7	1.0340	24
6	6	20.6	20.9	1.0502	24
7	7	19.0	19.2	1.0549	26
8	8	12.8	12.4	1.0704	25
9	9	5.1	4.1	1.0900	25
10	10	12.0	11.7	1.0722	23

## Descriptive statistics for ht

**Notice the unusual minimum**

### The MEANS Procedure

Analysis Variable : ht Height (inches)				
N	Mean	Std Dev	Minimum	Maximum
252	70.1488095	3.6628558	29.5000000	77.7500000

**The row with the smallest ht**  
**Note the inconsistency with wt**

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
1	42	31.7	32.9	1.025	44	205	29.5	29.9	140.1	36.6	106

Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
1	104.3	115.5	70.6	42.5	23.7	33.6	28.7	17.4

**The row with the largest ht  
This seems quite normal to me**

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
1	96	17.3	17.4	1.0991	53	224.5	77.75	26.1	185.7	41.1	113.2

Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
1	99.2	107.5	61.7	42.3	23.2	32.9	30.8	20.4

**ht < 0 will include ht = .**

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Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
252	42	31.7	32.9	1.025	44	205	.	29.9	140.1	36.6	106

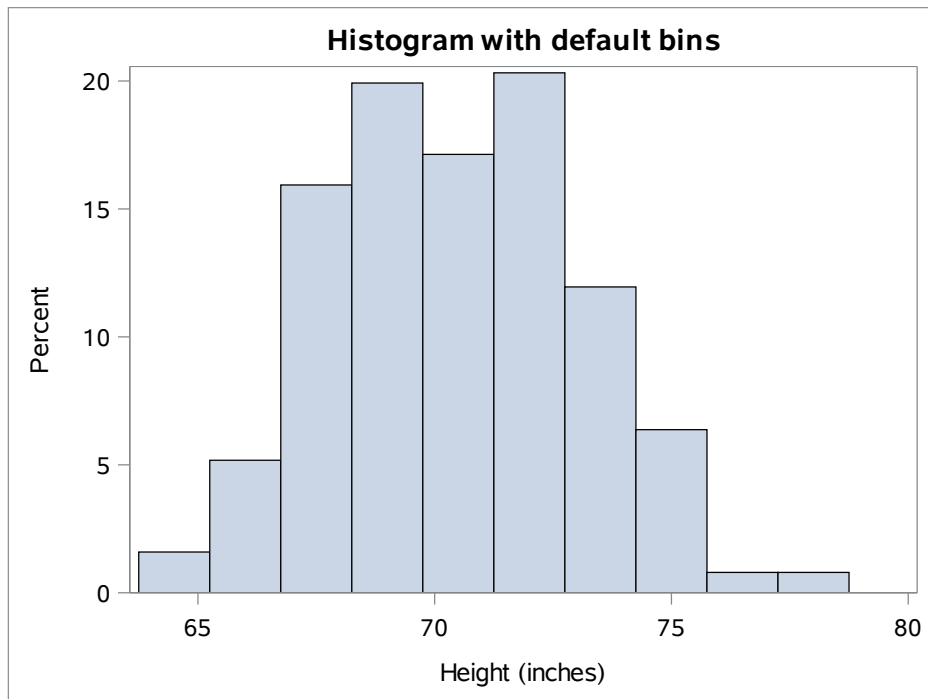
Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
252	104.3	115.5	70.6	42.5	23.7	33.6	28.7	17.4

**The MEANS Procedure**

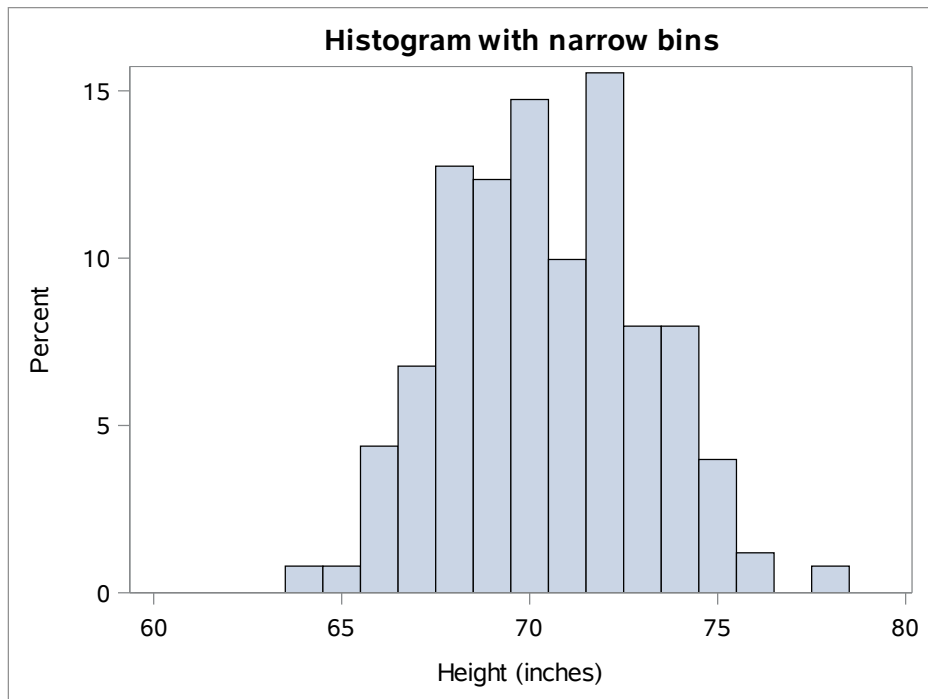
Analysis Variable : ht Height (inches)					
<b>N</b>	<b>N Miss</b>	<b>Mean</b>	<b>Std Dev</b>	<b>Minimum</b>	<b>Maximum</b>
251	1	70.3107570	2.6142960	64.0000000	77.7500000

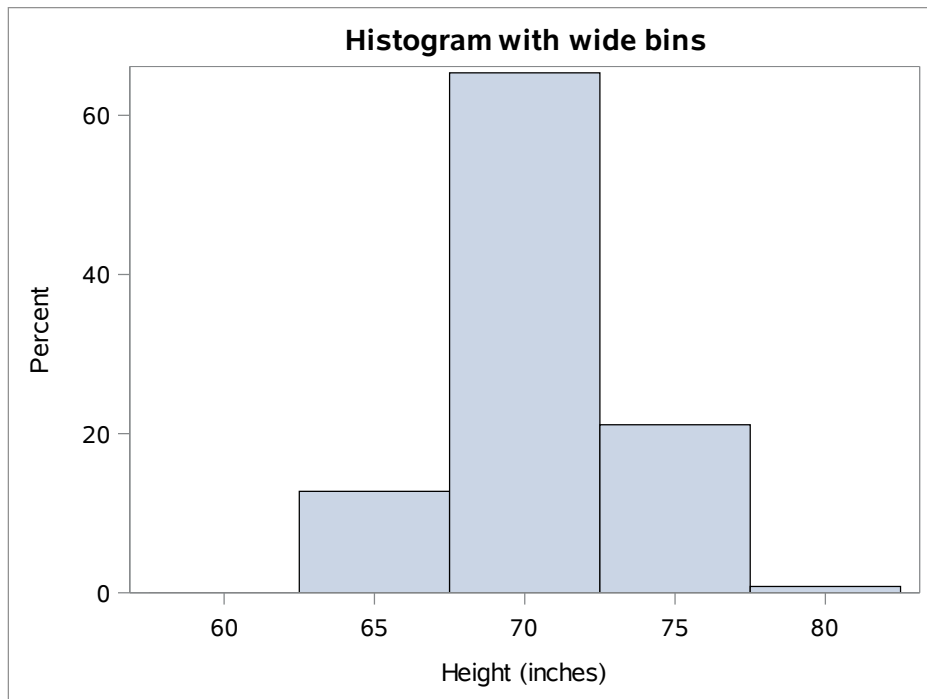
## Original and converted units

Obs	ht	ht_cm	wt	wt_kg
1	77.75	197.49	224.50	102.05
2	77.50	196.85	188.15	85.52
3	76.00	193.04	216.00	98.18
4	76.00	193.04	244.25	111.02
5	75.50	191.77	194.00	88.18
6	75.25	191.14	171.50	77.95
7	75.00	190.50	212.75	96.70
8	74.75	189.87	210.25	95.57
9	74.75	189.87	224.75	102.16
10	74.50	189.23	186.25	84.66









## The CORR Procedure

<b>10 With Variables:</b>	neck chest abdomen hip thigh knee ankle biceps forearm wrist
<b>2 Variables:</b>	fat_brozek fat_siri

Pearson Correlation Coefficients, N = 252		
	fat_brozek	fat_siri
<b>neck</b> Neck circumference (cm)	0.49149	0.49059
<b>chest</b> Chest circumference (cm)	0.70289	0.70262
<b>abdomen</b> Abdomen circumference (cm)	0.81371	0.81343
<b>hip</b> Hip circumference (cm)	0.62570	0.62520
<b>thigh</b> Thigh circumference (cm)	0.56128	0.55961

## The CORR Procedure

Pearson Correlation Coefficients, N = 252		
	fat_brozek	fat_siri
<b>knee</b> Knee circumference (cm)	0.50779	0.50867
<b>ankle</b> Ankle circumference (cm)	0.26678	0.26597
<b>biceps</b> Biceps circumference (cm)	0.49303	0.49327
<b>forearm</b> Forearm circumference (cm)	0.36328	0.36139
<b>wrist</b> Wrist circumference (cm)	0.34757	0.34657

## Correlation matrix output to a data set

Obs	_TYPE_	_NAME_	fat_brozek	fat_siri
1	MEAN		18.938	19.151
2	STD		7.751	8.369
3	N		252.000	252.000
4	CORR	neck	0.491	0.491
5	CORR	chest	0.703	0.703
6	CORR	abdomen	0.814	0.813
7	CORR	hip	0.626	0.625
8	CORR	thigh	0.561	0.560
9	CORR	knee	0.508	0.509
10	CORR	ankle	0.267	0.266
11	CORR	biceps	0.493	0.493

## Correlation matrix output to a data set

Obs	_TYPE_	_NAME_	fat_brozek	fat_siri
12	CORR	forearm	0.363	0.361
13	CORR	wrist	0.348	0.347

**Rounded and re-ordered correlation matrix**

Obs	_NAME_	fat_brozek	fat_siri
1	abdomen	81	81
2	chest	70	70
3	hip	63	63
4	thigh	56	56
5	knee	51	51
6	neck	49	49
7	biceps	49	49
8	forearm	36	36
9	wrist	35	35
10	ankle	27	27

