Ten rows and five columns of the body 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

The CONTENTS Procedure

Data Set Name	MODULE02.BODY	Observations	252
Member Type	DATA	Variables	19
Engine	V9	Indexes	0
Created	06/20/2025 13:06:51	Observation Length	152
Last Modified	06/20/2025 13:06:51	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

Engine/Host D	ependent Information
Data Set Page Size	65536
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	430
Obs in First Data Page	252
Number of Data Set Repairs	0
ExtendObsCounter	YES
Filename	q:\5507-2025b\02\data\body.sas7bdat
Release Created	9.0401M7
Host Created	X64_SRV19
Owner Name	UM-AD\simons
File Size	128KB
File Size (bytes)	131072

	Alphab	etic List	of Var	iables and Attributes			
#	Variable	Туре	Len	Label			
12	abdomen	Num	8	Abdomen circumference (cm)			
5	age	Num	8	Age (yrs)			
16	ankle	Num	8	Ankle circumference (cm)			
17	biceps	Num	8	Biceps circumference (cm)			
8	bmi	Num	8	Body mass index (kg/m^2)			
1	case	Num	8	Case number			
11	chest	Num	8	Chest circumference (cm)			
4	dens	Num	8 Density				

The CONTENTS Procedure

	Alphab	etic List	of Var	iables and Attributes
#	Variable	Туре	Len	Label
2	fat_brozek	Num	8	Fat (Brozek's equation)
3	fat_siri	Num	8	Fat (Siri's equation)
9	ffw	Num	8	Fat Free Weight (lbs)
18	forearm	Num	8	Forearm circumference (cm)
13	hip	Num	8	Hip circumference (cm)
7	ht	Num	8	Height (inches)
15	knee	Num	8	Knee circumference (cm)
10	neck	Num	8	Neck circumference (cm)
14	thigh	Num	8	Thigh circumference (cm)
19	wrist	Num	8	Wrist circumference (cm)
6	wt	Num	8	Weight (lbs)

Descriptive statistics for ht The minimum is very low

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	abdomen	hip
1	42	31.7	32.9	1.025	44	205	29.5	29.9	140.1	36.6	106	104.3	115.5

Obs	thigh	igh knee a		biceps	forearm	wrist
1	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	abdomen	hip
1	96	17.3	17.4	1.0991	53	224.5	77.75	26.1	185.7	41.1	113.2	99.2	107.5

Obs	thigh	knee	ankle	biceps	forearm	wrist
1	61.7	42.3	23.2	32.9	30.8	20.4

Printing negative values for ht (wrong way) Use where ht ^= . & ht < 0 instead

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest	abdomen	hip
252	42	31.7	32.9	1.025	44	205		29.9	140.1	36.6	106	104.3	115.5

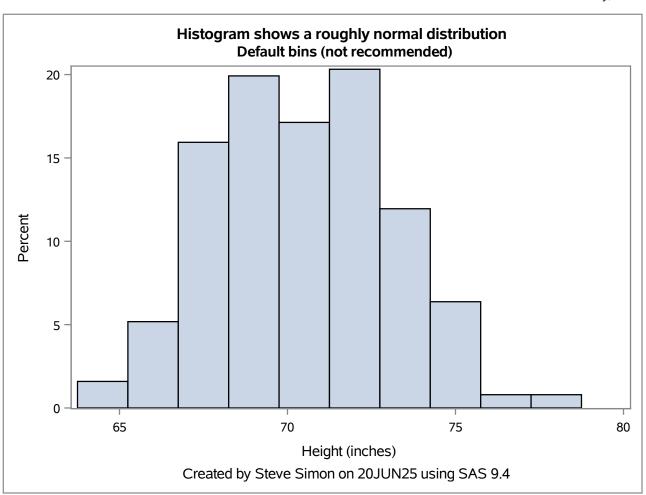
Obs	thigh	knee	ankle	biceps	forearm	wrist
252	70.6	42.5	23.7	33.6	28.7	17.4

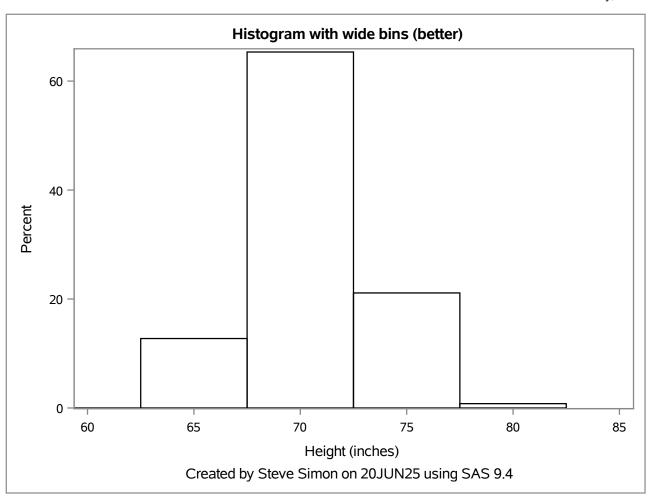
The MEANS Procedure

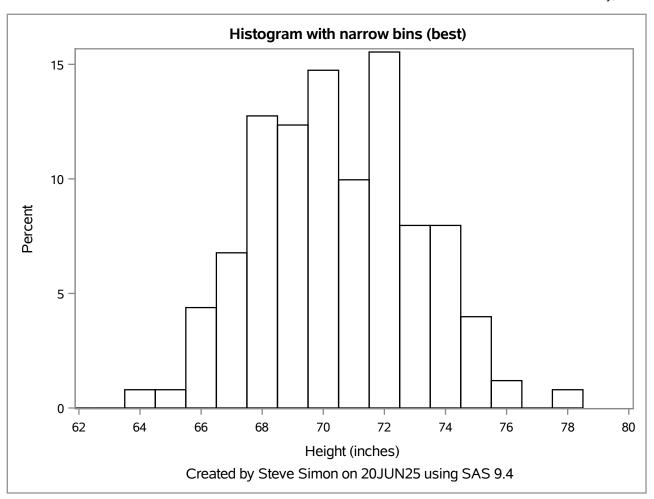
Analysis Variable : ht Height (inches)										
N	N Miss	Mean	Std Dev	Minimum	Maximum					
251	1	70.3107570	2.6142960	64.0000000	77.7500000					

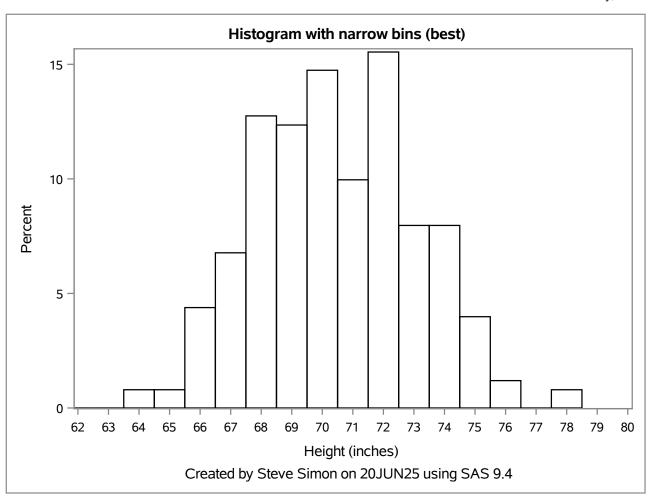
Recalculating ht, wt, and bmi Assuming two out of three are correct.

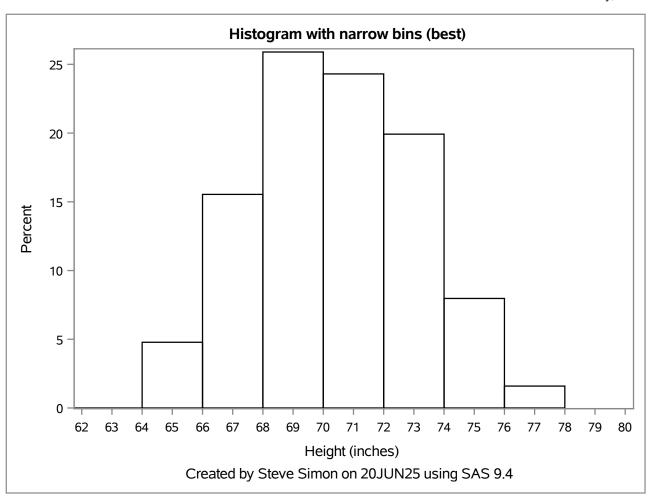
Obs	ht	check_ht	wt	check_wt	bmi	check_bmi
252	29.5	69.5017	205	36.9324	29.9	165.966

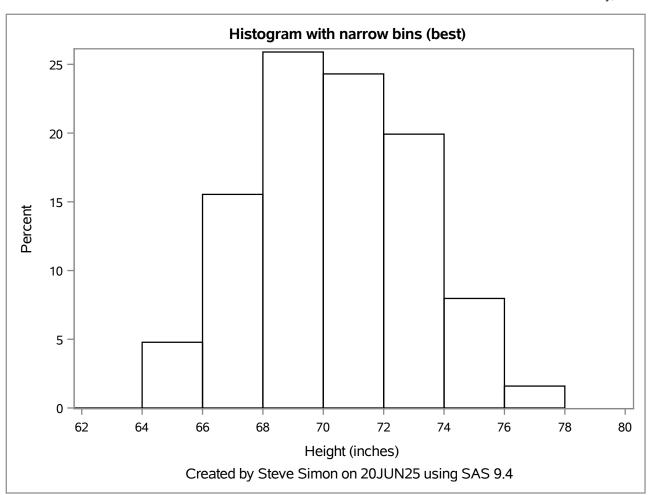


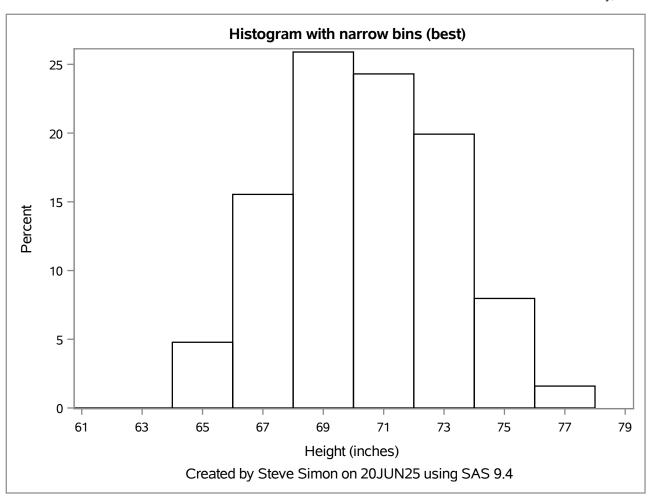












The CORR Procedure

10 With Variables:	neck	chest	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
2 Variables:	fat_bro	zek fat_s	iri							

	Simple Statistics									
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label			
neck	252	37.99206	2.43091	9574	31.10000	51.20000	Neck circumference (cm)			
chest	252	100.82421	8.43048	25408	79.30000	136.20000	Chest circumference (cm)			
abdomen	252	92.55595	10.78308	23324	69.40000	148.10000	Abdomen circumference (cm)			
hip	252	99.90476	7.16406	25176	85.00000	147.70000	Hip circumference (cm)			
thigh	252	59.40595	5.24995	14970	47.20000	87.30000	Thigh circumference (cm)			
knee	252	38.59048	2.41180	9725	33.00000	49.10000	Knee circumference (cm)			
ankle	252	23.10238	1.69489	5822	19.10000	33.90000	Ankle circumference (cm)			
biceps	252	32.27341	3.02127	8133	24.80000	45.00000	Biceps circumference (cm)			
forearm	252	28.66389	2.02069	7223	21.00000	34.90000	Forearm circumference (cm)			
wrist	252	18.22976	0.93358	4594	15.80000	21.40000	Wrist circumference (cm)			
fat_brozek	252	18.93849	7.75086	4773	0	45.10000	Fat (Brozek's equation)			
fat_siri	252	19.15079	8.36874	4826	0	47.50000	Fat (Siri's equation)			

Pearson Correlation Coefficients, N = 252 Prob > r under H0: Rho=0							
	fat_brozek	fat_siri					
neck	0.49149	0.49059					
Neck circumference (cm)	<.0001	<.0001					
chest	0.70289	0.70262					
Chest circumference (cm)	<.0001	<.0001					
abdomen	0.81371	0.81343					
Abdomen circumference (cm)	<.0001	<.0001					
hip	0.62570	0.62520					
Hip circumference (cm)	<.0001	<.0001					
thigh	0.56128	0.55961					
Thigh circumference (cm)	<.0001	<.0001					
knee	0.50779	0.50867					
Knee circumference (cm)	<.0001	<.0001					
ankle	0.26678	0.26597					
Ankle circumference (cm)	<.0001	<.0001					
biceps	0.49303	0.49327					
Biceps circumference (cm)	<.0001	<.0001					
forearm	0.36328	0.36139					
Forearm circumference (cm)	<.0001	<.0001					
wrist	0.34757	0.34657					
Wrist circumference (cm)	<.0001	<.0001					

Abdomen, hip, and chest show the strongest correlations

Obs	_NAME_	fat_brozek	fat_siri
1	abdomen	0.81	0.81
2	chest	0.70	0.70
3	hip	0.63	0.63
4	thigh	0.56	0.56
5	knee	0.51	0.51
6	neck	0.49	0.49
7	biceps	0.49	0.49
8	forearm	0.36	0.36
9	wrist	0.35	0.35
10	ankle	0.27	0.27

