

The first 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 |

Simple descriptive statistics for ht

Notice the unusual minimum value

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 = .

14:43 Thursday, June 17, 2021 5

| 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 |

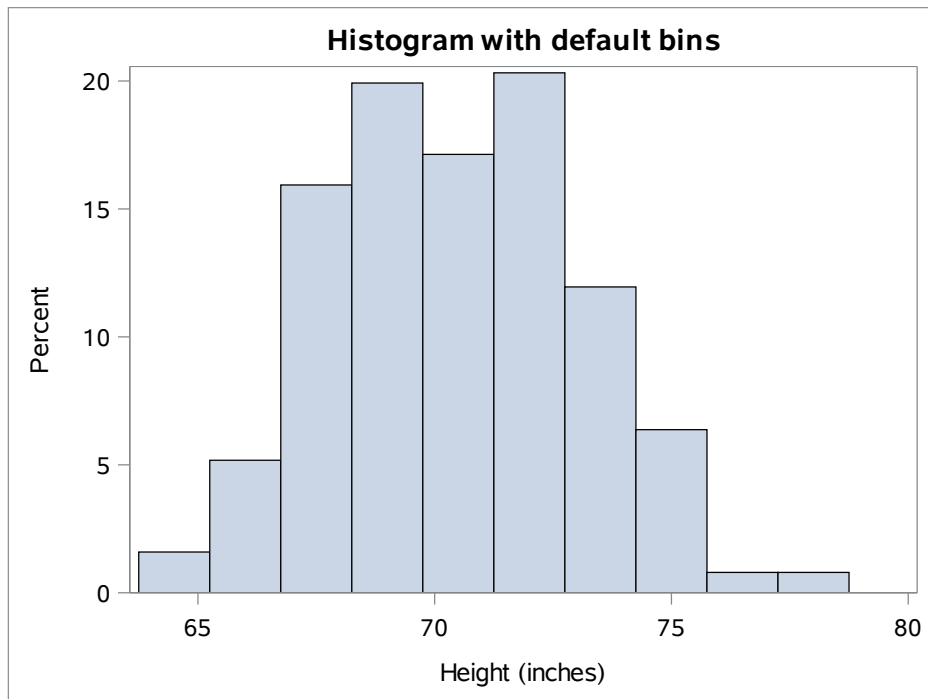
| Obs | abdomen | hip | thigh | knee | ankle | biceps | forearm | wrist |
|-----|---------|-------|-------|------|-------|--------|---------|-------|
| 252 | 104.3 | 115.5 | 70.6 | 42.5 | 23.7 | 33.6 | 28.7 | 17.4 |

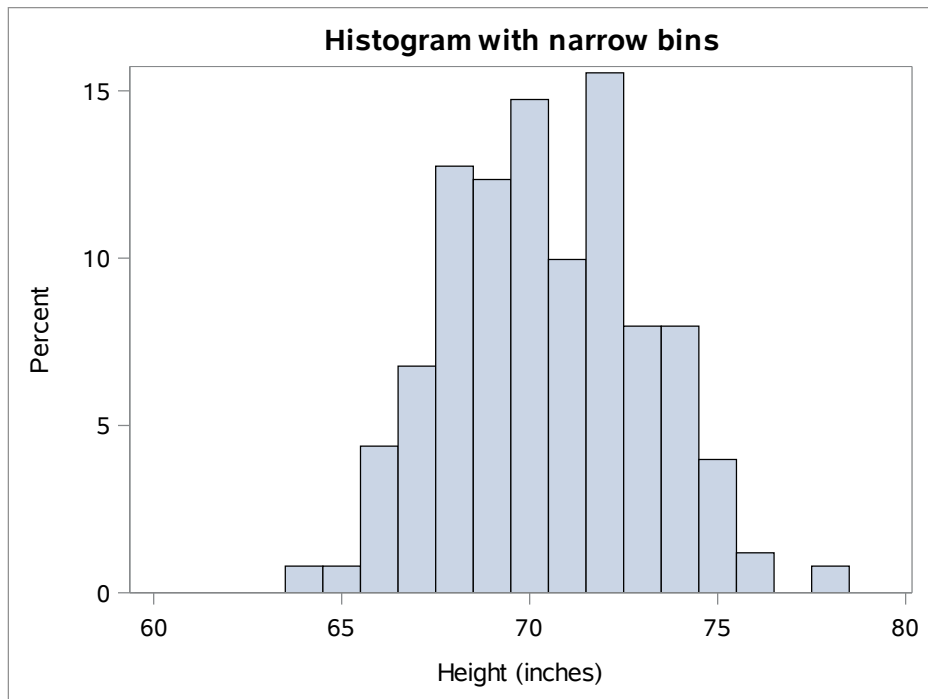
The MEANS Procedure

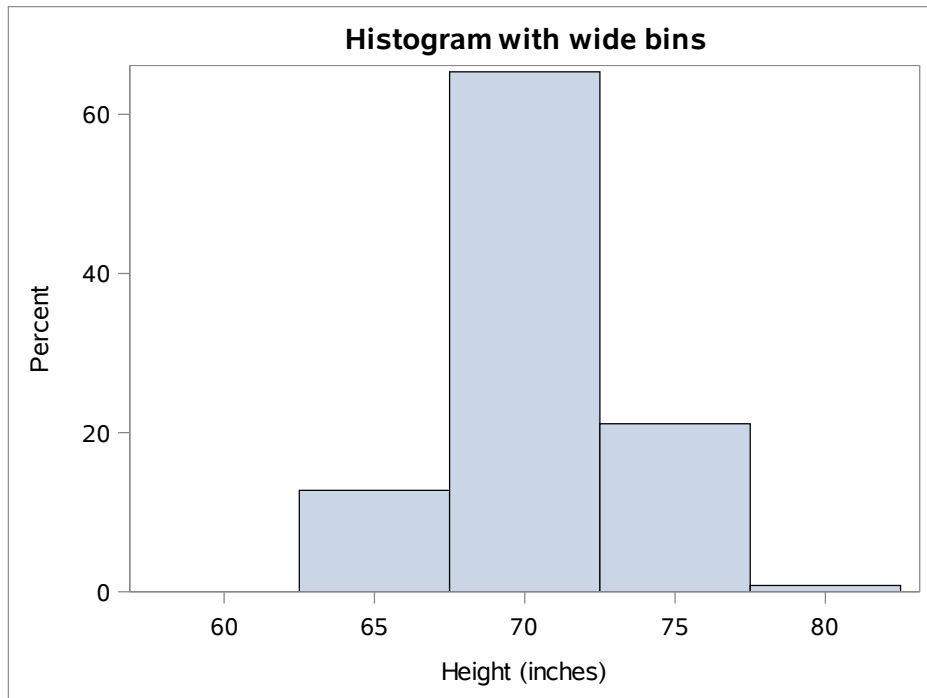
| Analysis Variable : ht Height (inches) | | | | | |
|--|--------|------------|-----------|------------|------------|
| N | N Miss | Mean | Std Dev | Minimum | Maximum |
| 251 | 1 | 70.3107570 | 2.6142960 | 64.0000000 | 77.7500000 |

Original and converted units

| Obs | ht | ht_cm | wt | wt_kg |
|-----|-------|---------|--------|---------|
| 1 | 77.75 | 197.485 | 224.50 | 102.045 |
| 2 | 77.50 | 196.850 | 188.15 | 85.523 |
| 3 | 76.00 | 193.040 | 216.00 | 98.182 |
| 4 | 76.00 | 193.040 | 244.25 | 111.023 |
| 5 | 75.50 | 191.770 | 194.00 | 88.182 |
| 6 | 75.25 | 191.135 | 171.50 | 77.955 |
| 7 | 75.00 | 190.500 | 212.75 | 96.705 |
| 8 | 74.75 | 189.865 | 210.25 | 95.568 |
| 9 | 74.75 | 189.865 | 224.75 | 102.159 |
| 10 | 74.50 | 189.230 | 186.25 | 84.659 |







The CORR Procedure

| | |
|---------------------------|--|
| 10 With Variables: | neck chest abdomen hip thigh knee ankle biceps forearm wrist |
| 2 Variables: | fat_brozek fat_siri |

Pearson Correlation Coefficients, N = 252

| | fat_brozek | fat_siri |
|--|------------|----------|
| neck Neck circumference (cm) | 0.49149 | 0.49059 |
| chest Chest circumference (cm) | 0.70289 | 0.70262 |
| abdomen Abdomen circumference (cm) at the umbilicus and level with the iliac crest | 0.81371 | 0.81343 |
| hip Hip circumference (cm) | 0.62570 | 0.62520 |
| thigh Thigh circumference (cm) | 0.56128 | 0.55961 |

The CORR Procedure

Pearson Correlation Coefficients, N = 252

| | fat_brozek | fat_siri |
|--|------------|----------|
| knee Knee circumference (cm) | 0.50779 | 0.50867 |
| ankle Ankle circumference (cm) | 0.26678 | 0.26597 |
| biceps Extended biceps circumference (cm) | 0.49303 | 0.49327 |
| forearm Forearm circumference (cm) | 0.36328 | 0.36139 |
| wrist Wrist circumference (cm) distal to the styloid processes | 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 | _TYPE_ | _NAME_ | fat_brozek | fat_siri |
|-----|--------|---------|------------|----------|
| 1 | CORR | abdomen | 81 | 81 |
| 2 | CORR | chest | 70 | 70 |
| 3 | CORR | hip | 63 | 63 |
| 4 | CORR | thigh | 56 | 56 |
| 5 | CORR | knee | 51 | 51 |
| 6 | CORR | neck | 49 | 49 |
| 7 | CORR | biceps | 49 | 49 |
| 8 | CORR | forearm | 36 | 36 |
| 9 | CORR | wrist | 35 | 35 |
| 10 | CORR | ankle | 27 | 27 |

