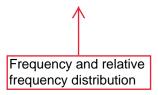
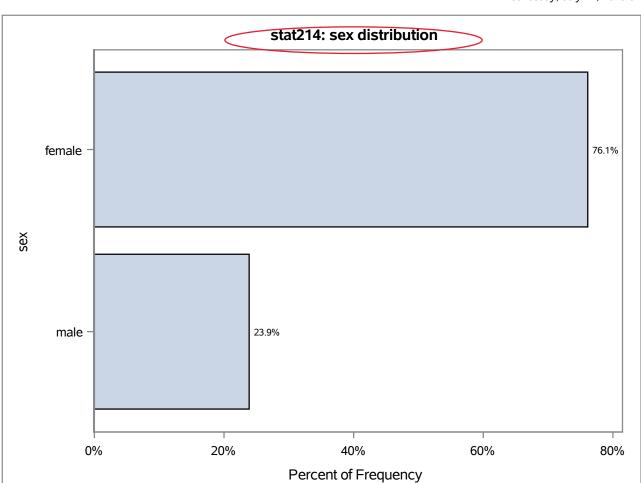
stat214 sex distribution

The FREQ Procedure

| female 51 76.12 51 76. | sex | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-------------------------------|--------|---------------|---------|-------------------------|-----------------------|
| | female | ale 51 | 76.12 | 51 | 76.12 |
| male 16 23.88 67 100.0 | male | e 16 | 23.88 | 67 | 100.00 |





horizontal bar graph

section=1

| sex | Frequency | Percent | Cumulative Frequency | Cumulative Percent | | | | | |
|--------|-----------|---------|-------------------------|-----------------------|--|--|--|--|--|
| female | 28 | 77.78 | 28 | 77.78 | | | | | |
| male | 8 | 22.22 | 36 | 100.00 | | | | | |
| | | | | | | | | | |

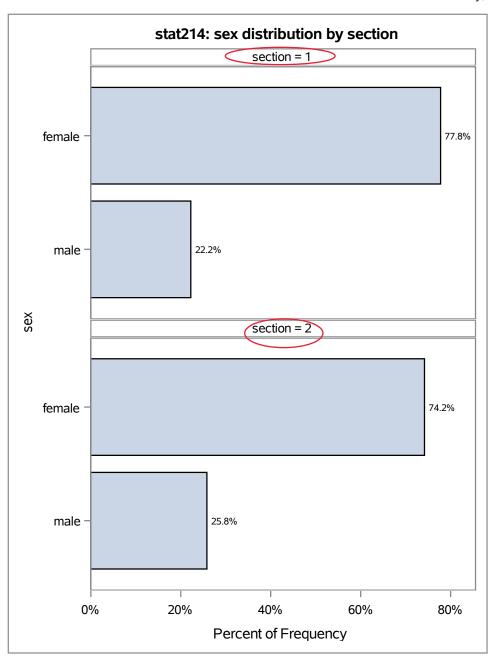
Frequency and relative frequency distribution

The FREQ Procedure

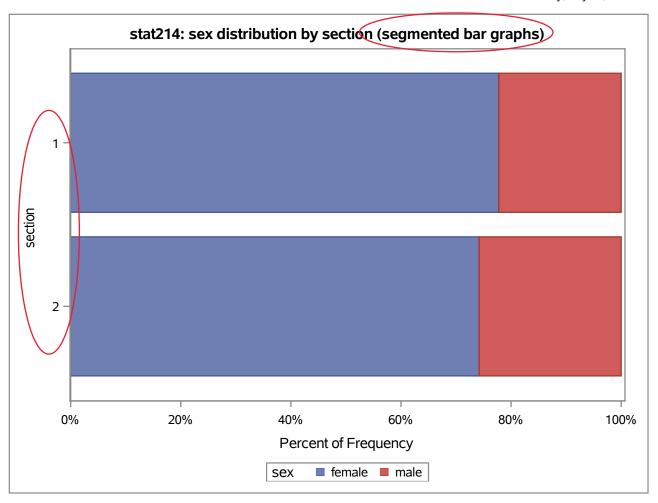
section=2

| sex | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|--------|-----------|---------|-------------------------|-----------------------|
| female | 23 | 74.19 | 23 | 74.19 |
| male | 8 | 25.81 | 31 | 100.00 |

Frequency and relative frequency distribution



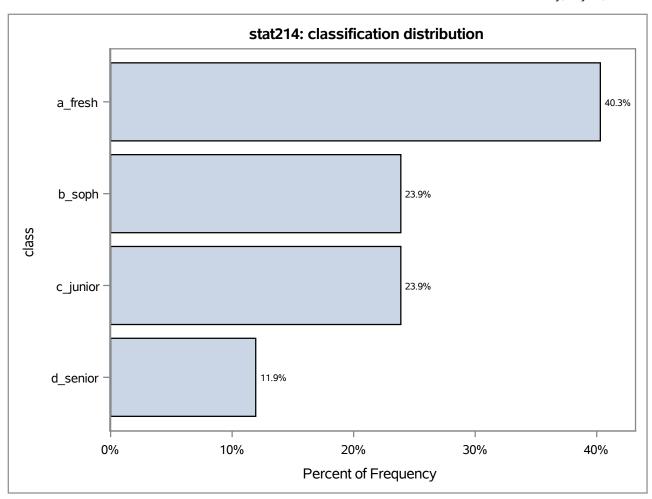
horizontal bar graphs



The FREQ Procedure

| class | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|----------|-----------|---------|-------------------------|-----------------------|
| a_fresh | 27 | 40.30 | 27 | 40.30 |
| b_soph | 16 | 23.88 | 43 | 64.18 |
| c_junior | 16 | 23.88 | 59 | 88.06 |
| d_senior | 8 | 11.94 | 67 | 100.00 |

Frequency and relative frequency distribution



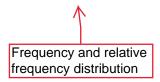
horizontal bar graph

stat214 classification distribution by section

The FREQ Procedure

section=1

| class | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|----------|-----------|---------|-------------------------|-----------------------|
| a_fresh | 19 | 52.78 | 19 | 52.78 |
| b_soph | 6 | 16.67 | 25 | 69.44 |
| c_junior | 6 | 16.67 | 31 | 86.11 |
| d_senior | 5 | 13.89 | 36 | 100.00 |



stat214 classification distribution by section

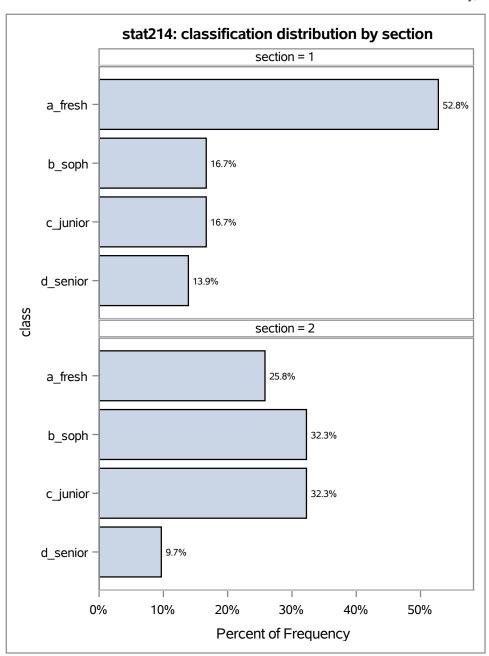
The FREQ Procedure

section=2

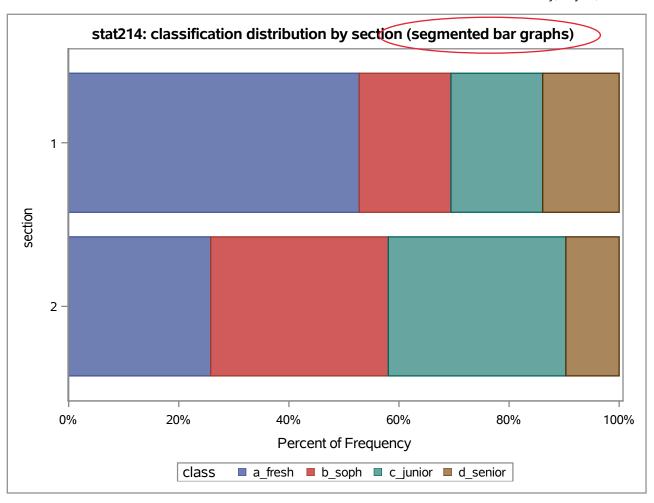
| class | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|----------|-----------|---------|-------------------------|-----------------------|
| a_fresh | 8 | 25.81 | 8 | 25.81 |
| b_soph | 10 | 32.26 | 18 | 58.06 |
| c_junior | 10 | 32.26 | 28 | 90.32 |
| d_senior | 3 | 9.68 | 31 | 100.00 |



Frequency and relative frequency distribution



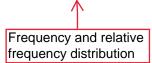
horizontal bar graphs



segmented bar graphs

The FREQ Procedure

| siblings | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|----------|-----------|---------|-------------------------|-----------------------|
| 0 | 2 | 2.99 | 2 | 2.99 |
| 1 | 21 | 31.34 | 23 | 34.33 |
| 2 | 21 | 31.34 | 44 | 65.67 |
| 3 | 11 | 16.42 | 55 | 82.09 |
| 4 | 7 | 10.45 | 62 | 92.54 |
| 5 | 3 | 4.48 | 65 | 97.01 |
| 6 | 1 | 1.49 | 66 | 98.51 |
| 7 | 1 | 1.49 | 67 | 100.00 |



The UNIVARIATE Procedure Variable: siblings

This page gives general summary information about the distribution

| | Basic Statistical Measures | | | | | | | | | | |
|--------|----------------------------|---------------------|---------|--|--|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | | | |
| Mean | 2.268657 | Std Deviation | 1.40973 | | | | | | | | |
| Median | 2.000000 | Variance | 1.98734 | | | | | | | | |
| Mode | 1.000000 | Range | 7.00000 | | | | | | | | |
| | | Interquartile Range | 2.00000 | | | | | | | | |

Note: The mode displayed is the smallest of 2 modes with a count of 21.

| Quantiles (Definition 5) | | | | | | |
|--------------------------|----------|--|--|--|--|--|
| Level | Quantile | | | | | |
| 100% Max | 7 | | | | | |
| 99% | 7 | | | | | |
| 95% | 5 | | | | | |
| 90% | 4 | | | | | |
| 75% Q3 | 3 | | | | | |
| 50% Median | 2 | | | | | |
| 25% Q1 | 1 | | | | | |
| 10% | 1 | | | | | |
| 5% | 1 | | | | | |
| 1% | 0 | | | | | |
| 0% Min | 0 | | | | | |

This means there are 2 values which each occur 21 times.

Blow we find that these values are 2 and 3. Since 2 and 3 are adjacent, the distribution is essentially unimodal. (The histogram has one peak over 2 and 3).

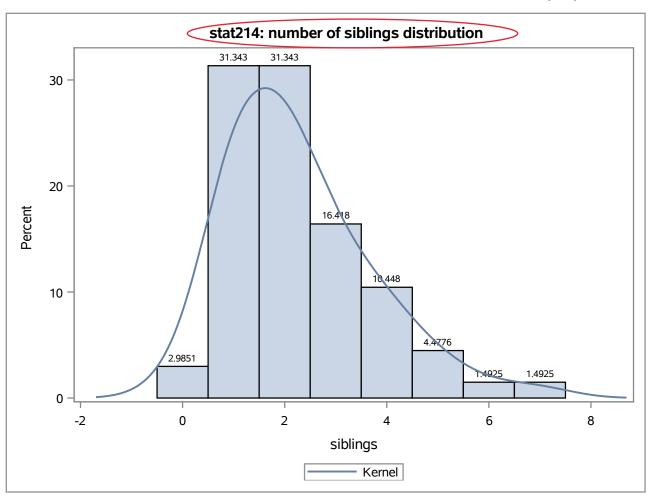
| Extreme Values | | | | | | | | | | |
|----------------|--------|------|--------|---------|----|--|--|--|--|--|
| | Lowest | | I | lighest | | | | | | |
| Order | Value | Freq | Order/ | Freq | | | | | | |
| 1 | 0 | 2 | 4 | 3 | 11 | | | | | |
| 2 | 1 | 21 | 5 | 4 | 7 | | | | | |
| 3 | 2 | 21 | 6 | 5 | 3 | | | | | |
| 4 | 3 | 11 | 7 | 6 | 1 | | | | | |
| 5 | 4 | 7 | 8 | 7 | 1 | | | | | |

| | Analysis Variable : siblings | | | | | | | | | | |
|----|------------------------------|-------------------|--------|-------------------|---------|--------|-------------------|--------|---------|--|--|
| N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev | | |
| 67 | 0.0000 | 1.0000 | 2.0000 | 3.0000 | 7.0000 | 7.0000 | 2.0000 | 2.2687 | 1.4097 | | |

basic summary statistics

| | Analysis Variable : siblings | | | | | | | | | | | |
|----------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| 0.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 2.0000 | 2.0000 | 2.0000 | 3.0000 | 3.0000 | 4.0000 | 5.0000 | 7.0000 |

percentiles



number of siblings distribution histogram with smoothed histogram (fitted curve) (kernel density estimate)

stat214 siblings distribution by section

The FREQ Procedure

section=1

| siblings | Frequency | Percent | Cumulative Frequency | Cumulative Percent | | | | | |
|----------|-----------|---------|-------------------------|-----------------------|--|--|--|--|--|
| 0 | 1 | 2.78 | 1 | 2.78 | | | | | |
| 1 | 14 | 38.89 | 15 | 41.67 | | | | | |
| 2 | 12 | 33.33 | 27 | 75.00 | | | | | |
| 3 | 5 | 13.89 | 32 | 88.89 | | | | | |
| 4 | 1 | 2.78 | 33 | 91.67 | | | | | |
| 5 | 3 | 8.33 | 36 | 100.00 | | | | | |
| | | | | | | | | | |

Frequency and relative frequency distribution

stat214 siblings distribution by section

The FREQ Procedure

section=2

| | siblings | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|---|----------|-----------|---------|-------------------------|-----------------------|
| | 0 | 1 | 3.23 | 1 | 3.23 |
| | 1 | 7 | 22.58 | 8 | 25.81 |
| | 2 | 9 | 29.03 | 17 | 54.84 |
| | 3 | 6 | 19.35 | 23 | 74.19 |
| | 4 | 6 | 19.35 | 29 | 93.55 |
| - | 6 | 1 | 3.23 | 30 | 96.77 |
| | 7 | 1 | 3.23 | 31 | 100.00 |
| | | | | | |

Frequency and relative frequency distribution

note gap

no one had 5 siblings

The UNIVARIATE Procedure Variable: siblings section = 1

This page gives general summary information about the distribution

| Basic Statistical Measures | | | | | | | | | | |
|----------------------------|----------|---------------------|---------|--|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | | |
| Mean 2.000000 | | Std Deviation | 1.24212 | | | | | | | |
| Median | 2.000000 | Variance | 1.54286 | | | | | | | |
| Mode | 1.000000 | Range | 5.00000 | | | | | | | |
| | | Interquartile Range | 1.50000 | | | | | | | |

| Quantiles (Definition 5) | | | | | |
|--------------------------|----------|--|--|--|--|
| Level | Quantile | | | | |
| 100% Max | 5.0 | | | | |
| 99% | 5.0 | | | | |
| 95% | 5.0 | | | | |
| 90% | 4.0 | | | | |
| 75% Q3 | 2.5 | | | | |
| 50% Median | 2.0 | | | | |
| 25% Q1 | 1.0 | | | | |
| 10% | 1.0 | | | | |
| 5% | 1.0 | | | | |
| 1% | 0.0 | | | | |
| 0% Min | 0.0 | | | | |

| Extreme Values | | | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | | | |
| 1 | 0 | 1 | 2 | 1 | 14 | | | | | | |
| 2 | 1 | 14 | 3 | 2 | 12 | | | | | | |
| 3 | 2 | 12 | 4 | 3 | 5 | | | | | | |
| 4 | 3 | 5 | 5 | 4 | 1 | | | | | | |
| 5 | 4 | 1 | 6 | 5 | 3 | | | | | | |

stat214 siblings distribution

The UNIVARIATE Procedure Variable: siblings section = 2

This page gives general summary information about the distribution

| Basic Statistical Measures | | | | | | | | | |
|----------------------------|------------------------|---------------------|---------|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | |
| Mean | 2.580645 Std Deviation | | | | | | | | |
| Median | 2.000000 | Variance | 2.38495 | | | | | | |
| Mode 2.000000 | | Range | 7.00000 | | | | | | |
| | | Interquartile Range | 3.00000 | | | | | | |

| Quantiles (Definition 5) | | | | | |
|--------------------------|----------|--|--|--|--|
| Level | Quantile | | | | |
| 100% Max | 7 | | | | |
| 99% | 7 | | | | |
| 95% | 6 | | | | |
| 90% | 4 | | | | |
| 75% Q3 | 4 | | | | |
| 50% Median | 2 | | | | |
| 25% Q1 | 1 | | | | |
| 10% | 1 | | | | |
| 5% | 1 | | | | |
| 1% | 0 | | | | |
| 0% Min | 0 | | | | |

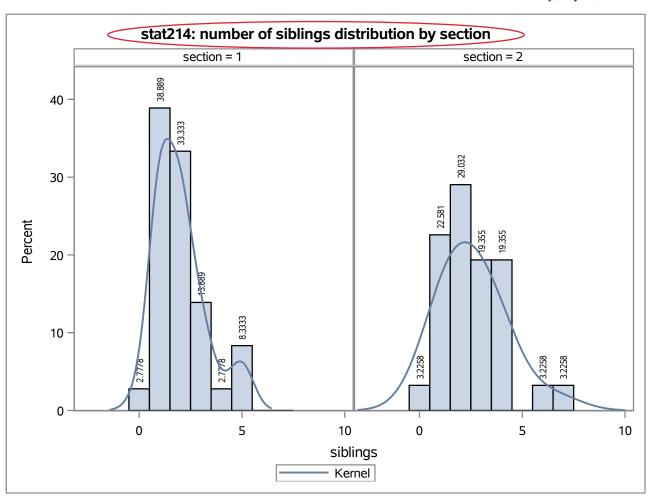
| Extreme Values | | | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | | | |
| 1 | 0 | 1 | 3 | 2 | 9 | | | | | | |
| 2 | 1 | 7 | 4 | 3 | 6 | | | | | | |
| 3 | 2 | 9 | 5 | 4 | 6 | | | | | | |
| 4 | 3 | 6 | 6 | 6 | 1 | | | | | | |
| 5 | 4 | 6 | 7 | 7 | 1 | | | | | | |

| | Analysis Variable : siblings | | | | | | | | | | | | |
|---|------------------------------|----|--------|--------|--------|--------|--------|--------|---------|--------|--------|--|--|
| Section Obs N Minimum Cuartile Median Cuartile Maximum Range Range Mean Std D | | | | | | | | | Std Dev | | | | |
| 1 | 36 | 36 | 0.0000 | 1.0000 | 2.0000 | 2.5000 | 5.0000 | 5.0000 | 1.5000 | 2.0000 | 1.2421 | | |
| 2 | 31 | 31 | 0.0000 | 1.0000 | 2.0000 | 4.0000 | 7.0000 | 7.0000 | 3.0000 | 2.5806 | 1.5443 | | |

basic summary statistics

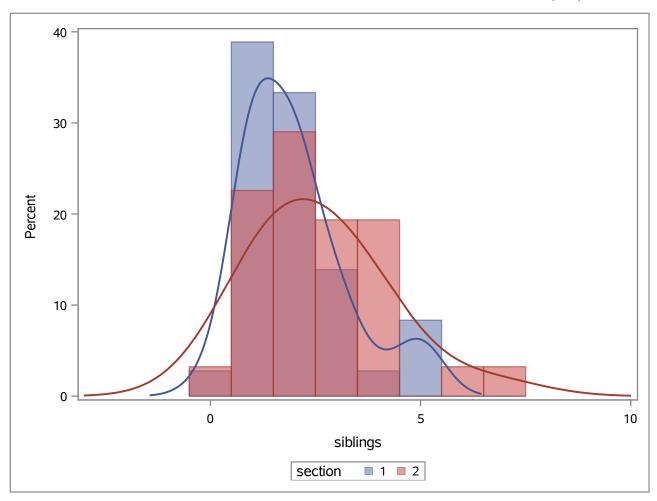
| | Analysis Variable : siblings | | | | | | | | | | | | | |
|---------|------------------------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| section | N Obs | 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| 1 | 36 | 0.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 2.0000 | 2.0000 | 2.0000 | 3.0000 | 4.0000 | 5.0000 | 5.0000 |
| 2 | 31 | 0.0000 | 1.0000 | 1.0000 | 1.0000 | 2.0000 | 2.0000 | 2.0000 | 3.0000 | 3.0000 | 4.0000 | 4.0000 | 6.0000 | 7.0000 |

percentiles



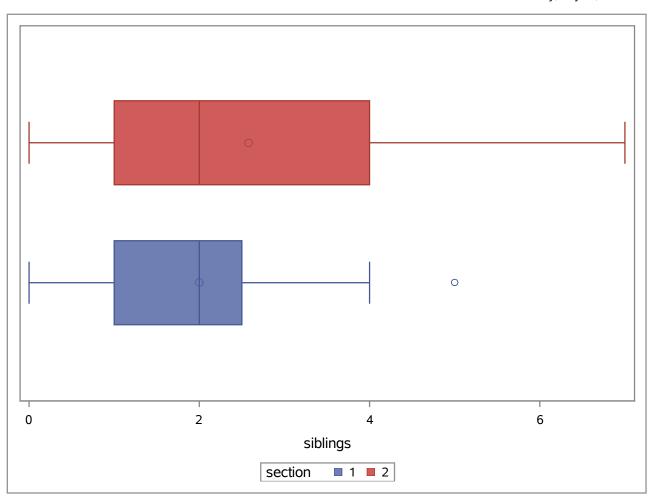
number of siblings distributions by section

histograms with smoothed histograms (fitted curves) (kernel density estimates)



number of siblings distributions by section (overlaid plot)

histograms with smoothed histograms (fitted curve)



box plots for the number of siblings distributions

The FREQ Procedure

| age | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-----|-----------|---------|-------------------------|-----------------------|
| 18 | 19 | 28.36 | 19 | 28.36 |
| 19 | 10 | 14.93 | 29 | 43.28 |
| 20 | 11 | 16.42 | 40 | 59.70 |
| 21 | 8 | 11.94 | 48 | 71.64 |
| 22 | 8 | 11.94 | 56 | 83.58 |
| 23 | 1 | 1.49 | 57 | 85.07 |
| 24 | 1 | 1.49 | 58 | 86.57 |
| 25 | 3 | 4.48 | 61 | 91.04 |
| 26 | 1 | 1.49 | 62 | 92.54 |
| 28 | 1 | 1.49 | 63 | 94.03 |
| 41 | 1 | 1.49 | 64 | 95.52 |
| 44 | 1 | 1.49 | 65 | 97.01 |
| 47 | 1 | 1.49 | 66 | 98.51 |
| 48 | 1 | 1.49 | 67 | 100.00 |

Note that there are gaps among these ages

Frequency and relative frequency distribution

The UNIVARIATE Procedure Variable: age

| Basic Statistical Measures | | | | | | | | | |
|----------------------------|----------|---------------------|----------|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | |
| Mean 21.67164 | | Std Deviation | 6.35893 | | | | | | |
| Median | 20.00000 | Variance | 40.43600 | | | | | | |
| Mode | 18.00000 | Range | 30.00000 | | | | | | |
| | | Interquartile Range | 4.00000 | | | | | | |

| Quantiles (Definition 5) | | | | | |
|--------------------------|----------|--|--|--|--|
| Level | Quantile | | | | |
| 100% Max | 48 | | | | |
| 99% | 48 | | | | |
| 95% | 41 | | | | |
| 90% | 25 | | | | |
| 75% Q3 | 22 | | | | |
| 50% Median | 20 | | | | |
| 25% Q1 | 18 | | | | |
| 10% | 18 | | | | |
| 5% | 18 | | | | |
| 1% | 18 | | | | |
| 0% Min | 18 | | | | |

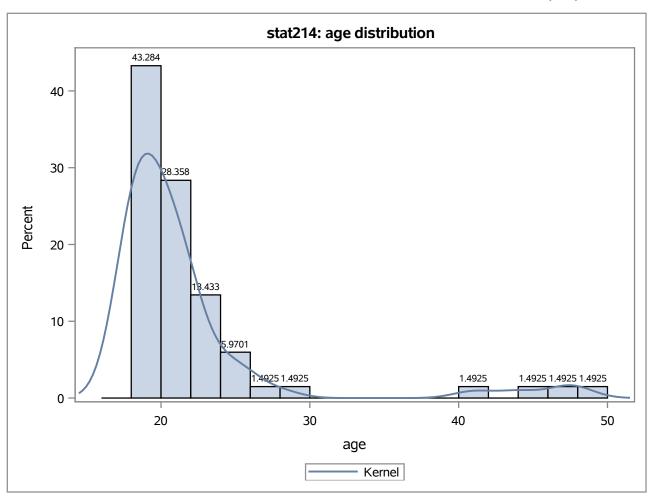
| Extreme Values | | | | | | | | |
|----------------|-------------------------------|----|----|---------|---|--|--|--|
| | Lowest | | ı | Highest | | | | |
| Order | er Value Freq Order Value Fre | | | | | | | |
| 1 | 18 | 19 | 10 | 28 | 1 | | | |
| 2 | 19 | 10 | 11 | 41 | 1 | | | |
| 3 | 20 | 11 | 12 | 44 | 1 | | | |
| 4 | 21 | 8 | 13 | 47 | 1 | | | |
| 5 | 22 | 8 | 14 | 48 | 1 | | | |

| | Analysis Variable : age | | | | | | | | | |
|----|-------------------------|-------------------|---------|-------------------|---------|---------|-------------------|---------|---------|--|
| N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev | |
| 67 | 18.0000 | 18.0000 | 20.0000 | 22.0000 | 48.0000 | 30.0000 | 4.0000 | 21.6716 | 6.3589 | |

basic summary statistics

| | Analysis Variable : age | | | | | | | | | | | |
|----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| 18.0000 | 18.0000 | 18.0000 | 18.0000 | 19.0000 | 19.0000 | 20.0000 | 21.0000 | 21.0000 | 22.0000 | 25.0000 | 41.0000 | 48.0000 |

percentiles



age distribution histogram with smoothed histogram (fitted curve) (kernel density estimate)

stat214 age distribution by section

The FREQ Procedure

section=1

| age | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-----|-----------|---------|-------------------------|-----------------------|
| 18 | 14 | 38.89 | 14 | 38.89 |
| 19 | 4 | 11.11 | 18 | 50.00 |
| 20 | 4 | 11.11 | 22 | 61.11 |
| 21 | 3 | 8.33 | 25 | 69.44 |
| 22 | 7 | 19.44 | 32 | 88.89 |
| 25 | 2 | 5.56 | 34 | 94.44 |
| 41 | 1 | 2.78 | 35 | 97.22 |
| 47 | 1 | 2.78 | 36 | 100.00 |
| | | | | |

Frequency and relative frequency distribution

NOTE gaps!

stat214 age distribution by section The FREQ Procedure

section=2

| age | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-----|-----------|---------|-------------------------|-----------------------|
| 18 | 5 | 16.13 | 5 | 16.13 |
| 19 | 6 | 19.35 | 11 | 35.48 |
| 20 | 7 | 22.58 | 18 | 58.06 |
| 21 | 5 | 16.13 | 23 | 74.19 |
| 22 | 1 | 3.23 | 24 | 77.42 |
| 23 | 1 | 3.23 | 25 | 80.65 |
| 24 | 1 | 3.23 | 26 | 83.87 |
| 25 | 1 | 3.23 | 27 | 87.10 |
| 26 | 1 | 3.23 | 28 | 90.32 |
| 28 | 1 | 3.23 | 29 | 93.55 |
| 44 | 1 | 3.23 | 30 | 96.77 |
| 48 | 1 | 3.23 | 31 | 100.00 |

Frequency and relative frequency distribution

NOTE gaps!

The UNIVARIATE Procedure Variable: age section = 1

| Basic Statistical Measures | | | | | |
|----------------------------|----------|---------------------|----------|--|--|
| Loc | ation | Variability | | | |
| Mean | 21.19444 | Std Deviation | 5.99914 | | |
| Median | 19.50000 | Variance | 35.98968 | | |
| Mode | 18.00000 | Range | 29.00000 | | |
| | | Interquartile Range | 4.00000 | | |

| Quantiles (Definition 5) | | | | | |
|--------------------------|----------|--|--|--|--|
| Level | Quantile | | | | |
| 100% Max | 47.0 | | | | |
| 99% | 47.0 | | | | |
| 95% | 41.0 | | | | |
| 90% | 25.0 | | | | |
| 75% Q3 | 22.0 | | | | |
| 50% Median | 19.5 | | | | |
| 25% Q1 | 18.0 | | | | |
| 10% | 18.0 | | | | |
| 5% | 18.0 | | | | |
| 1% | 18.0 | | | | |
| 0% Min | 18.0 | | | | |

| Extreme Values | | | | | | | | |
|----------------|--------|------|-------|---------|------|--|--|--|
| | Lowest | | ı | Highest | | | | |
| Order | Value | Freq | Order | Value | Freq | | | |
| 1 | 18 | 14 | 4 | 21 | 3 | | | |
| 2 | 19 | 4 | 5 | 22 | 7 | | | |
| 3 | 20 | 4 | 6 | 25 | 2 | | | |
| 4 | 21 | 3 | 7 | 41 | 1 | | | |
| 5 | 22 | 7 | 8 | 47 | 1 | | | |

there are two older students one is 41 and the other is 47 the next oldest is 25

The UNIVARIATE Procedure Variable: age section = 2

| | Basic Statistical Measures | | | | | | |
|--------|----------------------------|---------------------|----------|--|--|--|--|
| Loc | ation | Variability | | | | | |
| Mean | 22.22581 | Std Deviation | 6.81033 | | | | |
| Median | 20.00000 | Variance | 46.38065 | | | | |
| Mode | 20.00000 | Range | 30.00000 | | | | |
| | | Interquartile Range | 3.00000 | | | | |

| Quantiles (Definition 5) | | | | |
|--------------------------|----------|--|--|--|
| Level | Quantile | | | |
| 100% Max | 48 | | | |
| 99% | 48 | | | |
| 95% | 44 | | | |
| 90% | 26 | | | |
| 75% Q3 | 22 | | | |
| 50% Median | 20 | | | |
| 25% Q1 | 19 | | | |
| 10% | 18 | | | |
| 5% | 18 | | | |
| 1% | 18 | | | |
| 0% Min | 18 | | | |

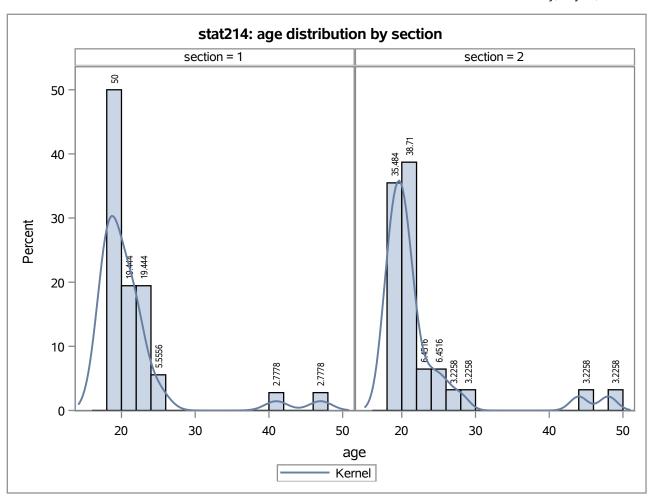
| Extreme Values | | | | | | | | |
|------------------|--------|---|-------|---------|------|--|--|--|
| | Lowest | | ı | Highest | | | | |
| Order Value Freq | | | Order | Value | Freq | | | |
| 1 | 18 | 5 | 8 | 25 | 1 | | | |
| 2 | 19 | 6 | 9 | 26 | 1 | | | |
| 3 | 20 | 7 | 10 | 28 | 1 | | | |
| 4 | 21 | 5 | 11 | 44 | 1 | | | |
| 5 | 22 | 1 | 12 | 48 | 1 | | | |

there are two older students one is 44 and the other is 48 the next oldest is 28

| Analysis Variable : age | | | | | | | | | | | |
|-------------------------|----------|----|---------|-------------------|---------|-------------------|---------|---------|-------------------|---------|---------|
| section | N Obs | N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev |
| 1 | 36 | 36 | 18.0000 | 18.0000 | 19.5000 | 22.0000 | 47.0000 | 29.0000 | 4.0000 | 21.1944 | 5.9991 |
| 2 | 31 | 31 | 18.0000 | 19.0000 | 20.0000 | 22.0000 | 48.0000 | 30.0000 | 3.0000 | 22.2258 | 6.8103 |

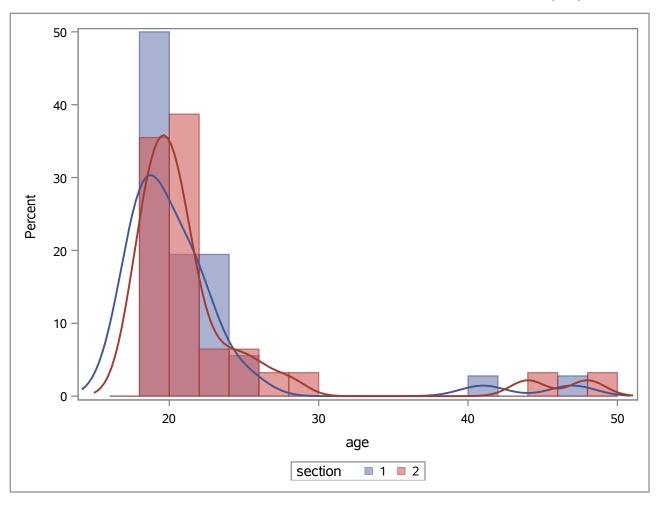
basic summary statistics

| | Analysis Variable : age | | | | | | | | | | | | | |
|---------|-------------------------|----------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| section | N Obs | 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| 1 | 36 | 18.0000 | 18.0000 | 18.0000 | 18.0000 | 18.0000 | 19.0000 | 19.5000 | 20.0000 | 22.0000 | 22.0000 | 25.0000 | 41.0000 | 47.0000 |
| 2 | 31 | 18.0000 | 18.0000 | 18.0000 | 19.0000 | 19.0000 | 20.0000 | 20.0000 | 21.0000 | 21.0000 | 23.0000 | 26.0000 | 44.0000 | 48.0000 |



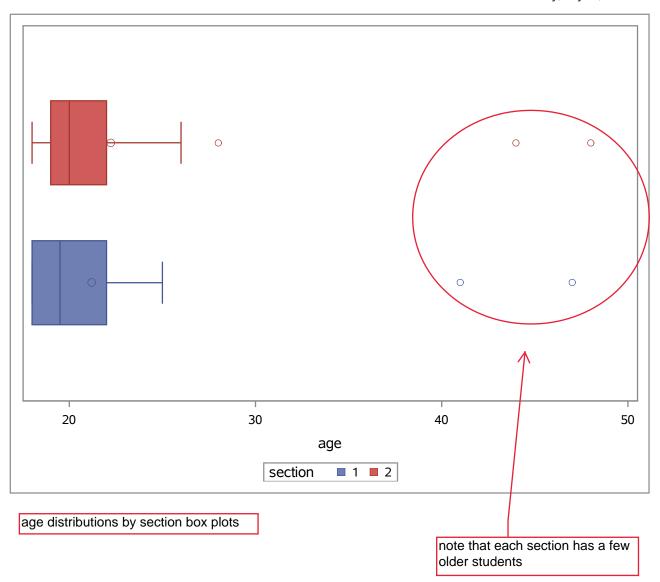
age distributions by section

histograms with smoothed histograms (fitted curves) (kernel density estimates)



age distributions by section (overlaid plot)

histograms with smoothed histograms (fitted curves)



stat214 weight distribution

The UNIVARIATE Procedure Variable: weight

| Basic Statistical Measures | | | | | | | | | | |
|----------------------------|----------|---------------------|-----------|--|--|--|--|--|--|--|
| Loc | ation | Variability | • | | | | | | | |
| Mean | 139.9851 | Std Deviation | 27.00140 | | | | | | | |
| Median | 135.0000 | Variance | 729.07553 | | | | | | | |
| Mode | 110.0000 | Range | 110.00000 | | | | | | | |
| | | Interquartile Range | 46.00000 | | | | | | | |

Note: The mode displayed is the smallest of 2 modes with a count of 7.

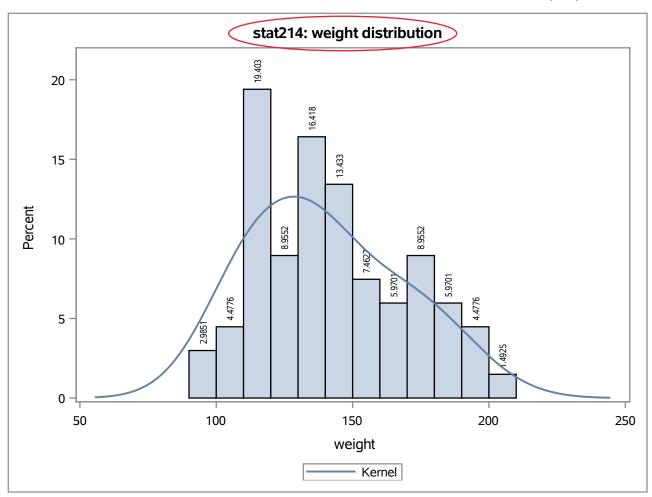
| Quantiles (Definition 5) | | | | | |
|--------------------------|----------|--|--|--|--|
| Level | Quantile | | | | |
| 100% Max | 205 | | | | |
| 99% | 205 | | | | |
| 95% | 190 | | | | |
| 90% | 180 | | | | |
| 75% Q3 | 162 | | | | |
| 50% Median | 135 | | | | |
| 25% Q1 | 116 | | | | |
| 10% | 110 | | | | |
| 5% | 105 | | | | |
| 1% | 95 | | | | |
| 0% Min | 95 | | | | |

| Extreme Values | | | | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | | | | |
| 1 | 95 | 1 | 25 | 175 | 1 | | | | | | | |
| 2 | 96 | 1 | 26 | 180 | 2 | | | | | | | |
| 3 | 103 | 1 | 27 | 185 | 2 | | | | | | | |
| 4 | 105 | 2 | 28 | 190 | 3 | | | | | | | |
| 5 | 110 | 7 | 29 | 205 | 1 | | | | | | | |

| | Analysis Variable : weight | | | | | | | | | | | | |
|----|----------------------------|-------------------|----------|-------------------|----------|----------|-------------------|----------|---------|--|--|--|--|
| N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev | | | | |
| 67 | 95.0000 | 116.0000 | 135.0000 | 162.0000 | 205.0000 | 110.0000 | 46.0000 | 139.9851 | 27.0014 | | | | |

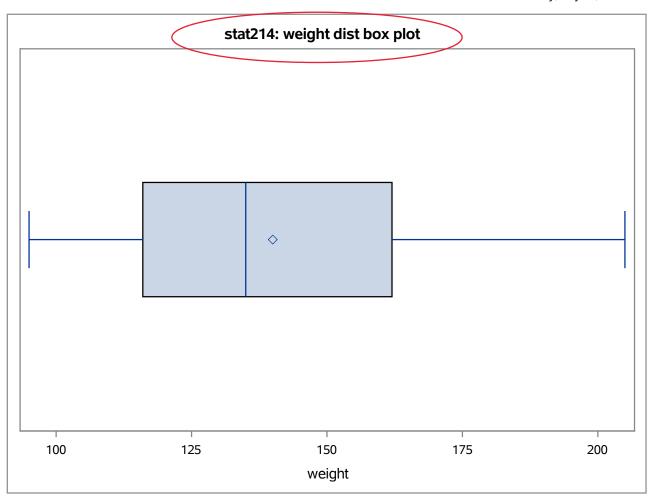
basic summary statistics

| | Analysis Variable : weight | | | | | | | | | | | | |
|----------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl | |
| 95.0000 | 105.0000 | 110.0000 | 115.0000 | 120.0000 | 130.0000 | 135.0000 | 140.0000 | 155.0000 | 170.0000 | 180.0000 | 190.0000 | 205.0000 | |



weight distribution

histogram with smoothed histogram (fitted curve) (kernel density estimate)



The UNIVARIATE Procedure Variable: weight sex = female

| Basic Statistical Measures | | | | | | | | | | |
|----------------------------|----------|---------------------|-----------|--|--|--|--|--|--|--|
| Location Variability | | | | | | | | | | |
| Mean | 131.0000 | Std Deviation | 21.86230 | | | | | | | |
| Median | 130.0000 | Variance | 477.96000 | | | | | | | |
| Mode | 110.0000 | Range | 90.00000 | | | | | | | |
| | | Interquartile Range | 28.00000 | | | | | | | |

| Quantiles (Definition 5) | | | | | | |
|--------------------------|----------|--|--|--|--|--|
| Level | Quantile | | | | | |
| 100% Max | 185 | | | | | |
| 99% | 185 | | | | | |
| 95% | 170 | | | | | |
| 90% | 165 | | | | | |
| 75% Q3 | 140 | | | | | |
| 50% Median | 130 | | | | | |
| 25% Q1 | 112 | | | | | |
| 10% | 110 | | | | | |
| 5% | 103 | | | | | |
| 1% | 95 | | | | | |
| 0% Min | 95 | | | | | |

| Extreme Values | | | | | | | | | | | |
|----------------|--------|-----------------------|---------|-----|---|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | |
| Order | Value | Freq Order Value Freq | | | | | | | | | |
| 1 | 95 | 1 | 20 | 160 | 1 | | | | | | |
| 2 | 96 | 1 | 21 | 165 | 1 | | | | | | |
| 3 | 103 | 1 | 22 | 170 | 3 | | | | | | |
| 4 | 105 | 2 | 23 | 180 | 1 | | | | | | |
| 5 | 110 | 7 | 24 | 185 | 1 | | | | | | |

The UNIVARIATE Procedure Variable: weight sex = male

stat214 weight distribution

| Basic Statistical Measures | | | | | | | | | | |
|----------------------------|----------|---------------------|-----------|--|--|--|--|--|--|--|
| Location Variability | | | | | | | | | | |
| Mean | 168.6250 | Std Deviation | 21.57120 | | | | | | | |
| Median | 170.0000 | Variance | 465.31667 | | | | | | | |
| Mode | 190.0000 | Range | 75.00000 | | | | | | | |
| | | Interquartile Range | 32.00000 | | | | | | | |

| Quantiles (Definition 5) | | | | | | |
|--------------------------|--|--|--|--|--|--|
| Quantile | | | | | | |
| 205.0 | | | | | | |
| 205.0 | | | | | | |
| 205.0 | | | | | | |
| 190.0 | | | | | | |
| 187.5 | | | | | | |
| 170.0 | | | | | | |
| 155.5 | | | | | | |
| 135.0 | | | | | | |
| 130.0 | | | | | | |
| 130.0 | | | | | | |
| 130.0 | | | | | | |
| | | | | | | |

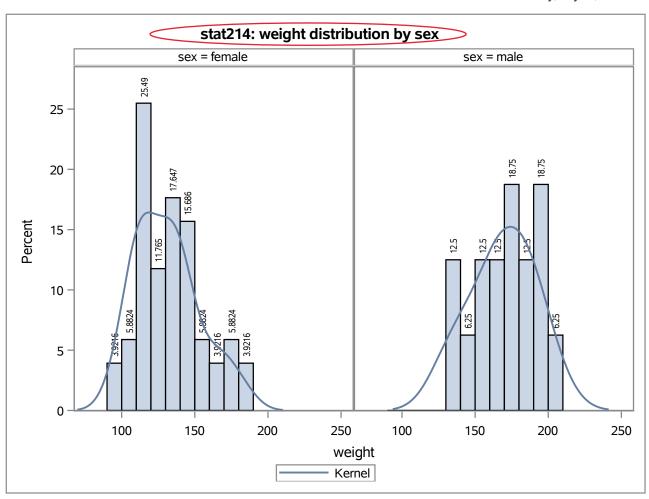
| Extreme Values | | | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | | | |
| 1 | 130 | 1 | 9 | 175 | 1 | | | | | | |
| 2 | 135 | 1 | 10 | 180 | 1 | | | | | | |
| 3 | 140 | 1 | 11 | 185 | 1 | | | | | | |
| 4 | 155 | 1 | 12 | 190 | 3 | | | | | | |
| 5 | 156 | 1 | 13 | 205 | 1 | | | | | | |

| | Analysis Variable : weight | | | | | | | | | | |
|--------|----------------------------|----|----------|-------------------|----------|-------------------|----------|---------|-------------------|----------|---------|
| sex | N Obs | N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev |
| female | 51 | 51 | 95.0000 | 112.0000 | 130.0000 | 140.0000 | 185.0000 | 90.0000 | 28.0000 | 131.0000 | 21.8623 |
| male | 16 | 16 | 130.0000 | 155.5000 | 170.0000 | 187.5000 | 205.0000 | 75.0000 | 32.0000 | 168.6250 | 21.5712 |

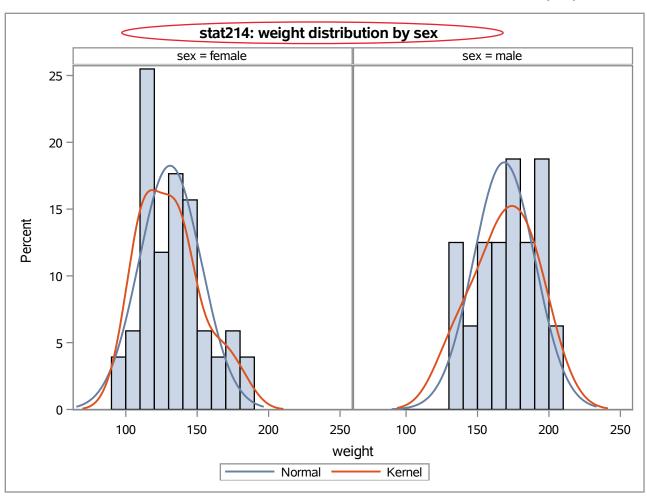
basic summary statistics

| | Analysis Variable : weight | | | | | | | | | | | | |
|--------|--|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|
| sex | sex N Obs 1st Pctl 5th Pctl 10th Pctl 20th Pctl 30th Pctl 40th Pctl 50th Pctl 60th Pctl 70th Pctl 80th Pctl 90th Pctl 95th Pct | | | | | | | | 95th Pctl | | | | |
| female | 51 | 95.0000 | 103.0000 | 110.0000 | 110.0000 | 115.0000 | 120.0000 | 130.0000 | 135.0000 | 140.0000 | 145.0000 | 165.0000 | 170.0000 |
| male | 16 | 130.0000 | 130.0000 | 135.0000 | 155.0000 | 156.0000 | 165.0000 | 170.0000 | 175.0000 | 185.0000 | 190.0000 | 190.0000 | 205.0000 |

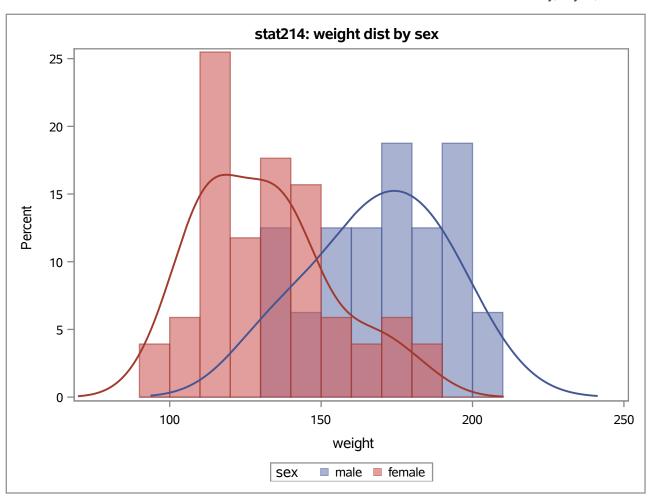
| Analysis Variable : weight | | | | | |
|-------------------------------|-----------|----------|--|--|--|
| sex | 99th Pctl | | | | |
| female | 51 | 185.0000 | | | |
| male | 16 | 205.0000 | | | |



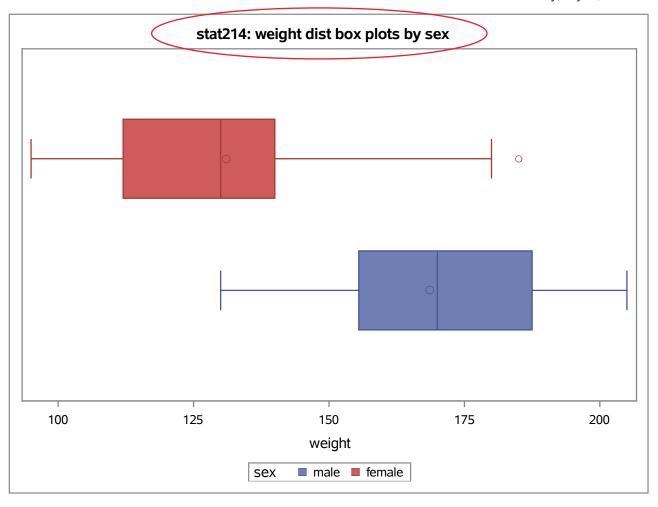
weight distributions by sex histograms with smoothed histograms (fitted curves) (kernel density estimates)



weight distributions by sex histograms (fitted curves) (kernel density estimates) and fitted normal density curves for comparison



weight distributions by sex (overlaid plots) histograms with smoothed histograms (fitted curves) (kernel density estimates)



stat214 height distribution

The UNIVARIATE Procedure Variable: height

| | Basic Statistical Measures | | | | | | | | |
|----------------------|----------------------------|---------------------|----------|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | |
| Mean | 65.97015 | Std Deviation | 3.65136 | | | | | | |
| Median | 66.00000 | Variance | 13.33243 | | | | | | |
| Mode 66.00000 | | Range | 16.00000 | | | | | | |
| | | Interquartile Range | 5.00000 | | | | | | |

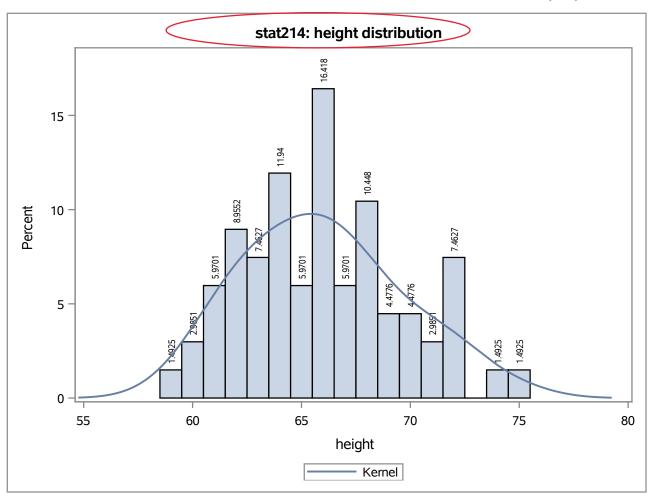
| Quantiles (E | Definition 5) |
|--------------|---------------|
| Level | Quantile |
| 100% Max | 75 |
| 99% | 75 |
| 95% | 72 |
| 90% | 72 |
| 75% Q3 | 68 |
| 50% Median | 66 |
| 25% Q1 | 63 |
| 10% | 61 |
| 5% | 61 |
| 1% | 59 |
| 0% Min | 59 |

| Extreme Values | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|
| | Lowest | | Highest | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | |
| 1 | 59 | 1 | 12 | 70 | 3 | | | | |
| 2 | 60 | 2 | 13 | 71 | 2 | | | | |
| 3 | 61 | 4 | 14 | 72 | 5 | | | | |
| 4 | 62 | 6 | 15 | 74 | 1 | | | | |
| 5 | 63 | 5 | 16 | 75 | 1 | | | | |

| | Analysis Variable : height | | | | | | | | | |
|----|----------------------------|-------------------|---------|-------------------|---------|---------|-------------------|---------|---------|--|
| N | Minimum | Lower Quartile | Median | Upper Quartile | Maximum | Range | Quartile Range | Mean | Std Dev | |
| 67 | 59.0000 | 63.0000 | 66.0000 | 68.0000 | 75.0000 | 16.0000 | 5.0000 | 65.9701 | 3.6514 | |

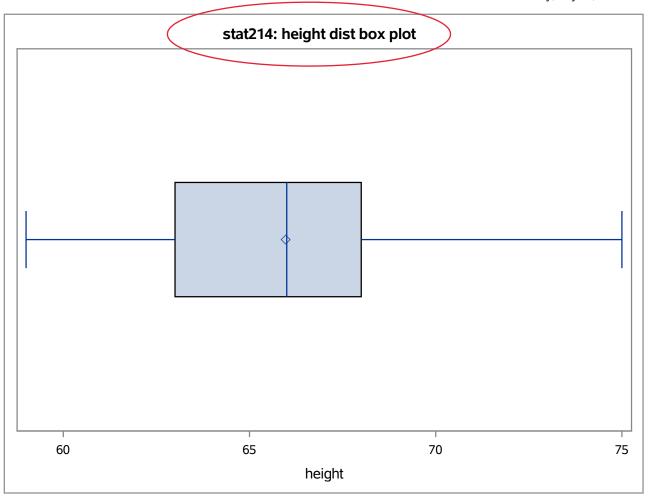
basic summary statistics

| | Analysis Variable : height | | | | | | | | | | | |
|----------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| 59.0000 | 61.0000 | 61.0000 | 63.0000 | 64.0000 | 65.0000 | 66.0000 | 66.0000 | 68.0000 | 69.0000 | 72.0000 | 72.0000 | 75.0000 |



height distribution

histogram with smoothed histograms (fitted curve) (kernel density estimate)



The UNIVARIATE Procedure Variable: height sex = female

| | Basic Statistical Measures | | | | | | | | |
|----------------------|----------------------------|---------------------|----------|--|--|--|--|--|--|
| Loc | | | | | | | | | |
| Mean | 64.58824 | Std Deviation | 2.68460 | | | | | | |
| Median | 64.00000 | Variance | 7.20706 | | | | | | |
| Mode 66.00000 | | Range | 11.00000 | | | | | | |
| | | Interquartile Range | 4.00000 | | | | | | |

| Quantiles (E | Quantiles (Definition 5) | | | | | | |
|--------------|--------------------------|--|--|--|--|--|--|
| Level | Quantile | | | | | | |
| 100% Max | 70 | | | | | | |
| 99% | 70 | | | | | | |
| 95% | 69 | | | | | | |
| 90% | 68 | | | | | | |
| 75% Q3 | 66 | | | | | | |
| 50% Median | 64 | | | | | | |
| 25% Q1 | 62 | | | | | | |
| 10% | 61 | | | | | | |
| 5% | 60 | | | | | | |
| 1% | 59 | | | | | | |
| 0% Min | 59 | | | | | | |

| Extreme Values | | | | | | | | | |
|----------------|--------|------|---------|-------|------|--|--|--|--|
| | Lowest | | Highest | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | |
| 1 | 59 | 1 | 8 | 66 | 10 | | | | |
| 2 | 60 | 2 | 9 | 67 | 4 | | | | |
| 3 | 61 | 4 | 10 | 68 | 5 | | | | |
| 4 | 62 | 6 | 11 | 69 | 1 | | | | |
| 5 | 63 | 5 | 12 | 70 | 2 | | | | |

The UNIVARIATE Procedure Variable: height sex = male

| Basic Statistical Measures | | | | | | | |
|----------------------------|----------|---------------------|----------|--|--|--|--|
| Location Variability | | | | | | | |
| Mean | 70.37500 | Std Deviation | 2.72947 | | | | |
| Median | 71.00000 | Variance | 7.45000 | | | | |
| Mode | 72.00000 | Range | 10.00000 | | | | |
| | | Interquartile Range | 3.50000 | | | | |

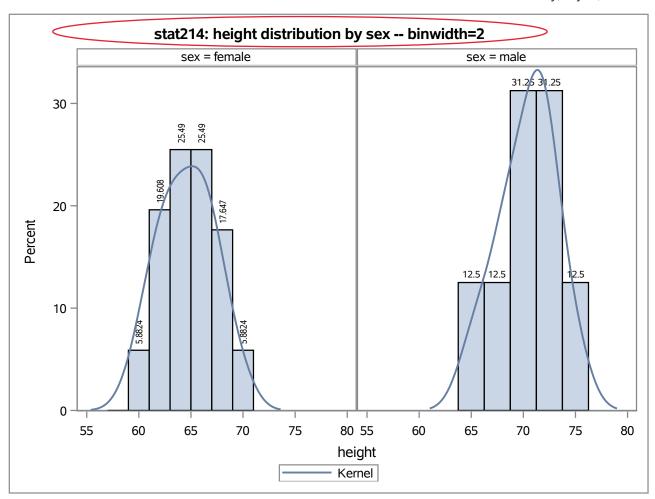
| Quantiles (E | Definition 5) |
|--------------|---------------|
| Level | Quantile |
| 100% Max | 75.0 |
| 99% | 75.0 |
| 95% | 75.0 |
| 90% | 74.0 |
| 75% Q3 | 72.0 |
| 50% Median | 71.0 |
| 25% Q1 | 68.5 |
| 10% | 66.0 |
| 5% | 65.0 |
| 1% | 65.0 |
| 0% Min | 65.0 |

| Extreme Values | | | | | | | | | | |
|----------------|--------|------|-----------------|---------|---|--|--|--|--|--|
| | Lowest | | ı | Highest | | | | | | |
| Order | Value | Freq | Order Value Fre | | | | | | | |
| 1 | 65 | 1 | 5 | 70 | 1 | | | | | |
| 2 | 66 | 1 | 6 | 71 | 2 | | | | | |
| 3 | 68 | 2 | 7 | 72 | 5 | | | | | |
| 4 | 69 | 2 | 8 | 74 | 1 | | | | | |
| 5 | 70 | 1 | 9 | 75 | 1 | | | | | |

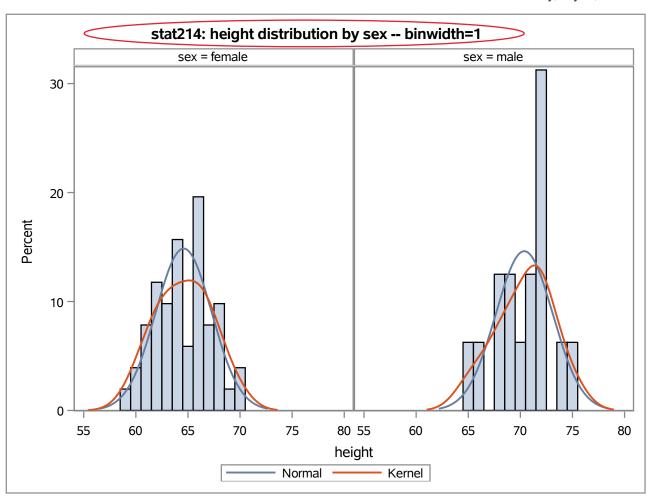
| | Analysis Variable : height | | | | | | | | | | | |
|---|----------------------------|----|---------|---------|---------|---------|---------|---------|--------|---------|--------|--|
| N Sex N Minimum Lower Quartile Upper Quartile Maximum Range Quartile Amount Amo | | | | | | | Std Dev | | | | | |
| female | 51 | 51 | 59.0000 | 62.0000 | 64.0000 | 66.0000 | 70.0000 | 11.0000 | 4.0000 | 64.5882 | 2.6846 | |
| male | 16 | 16 | 65.0000 | 68.5000 | 71.0000 | 72.0000 | 75.0000 | 10.0000 | 3.5000 | 70.3750 | 2.7295 | |

basic summary statistics

| | Analysis Variable : height | | | | | | | | | | | | | |
|--------|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|
| sex | | | | | | | | | | 99th Pctl | | | | |
| female | 51 | 59.0000 | 60.0000 | 61.0000 | 62.0000 | 63.0000 | 64.0000 | 64.0000 | 66.0000 | 66.0000 | 67.0000 | 68.0000 | 69.0000 | 70.0000 |
| male | 16 | 65.0000 | 65.0000 | 66.0000 | 68.0000 | 69.0000 | 70.0000 | 71.0000 | 72.0000 | 72.0000 | 72.0000 | 74.0000 | 75.0000 | 75.0000 |

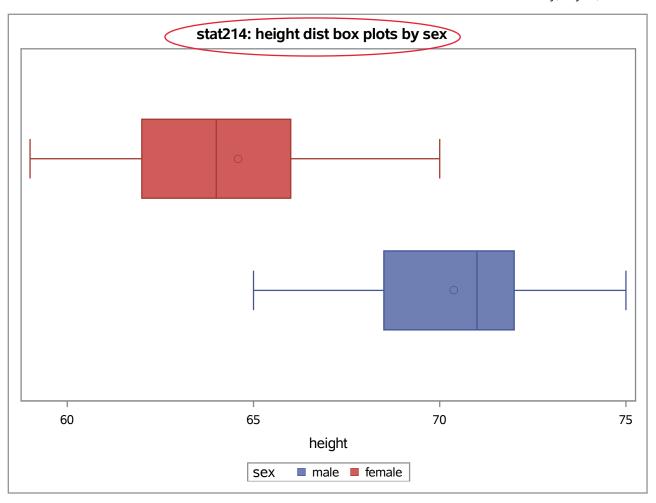


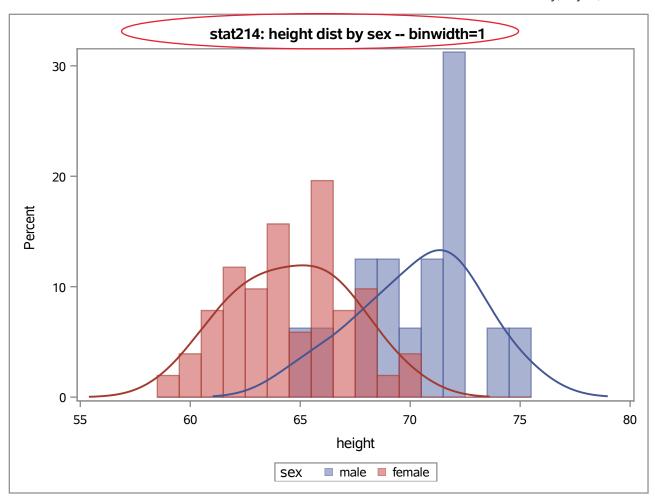
height distributions by sex histograms with smoothed histograms (fitted curves) (kernel density estimates)



height distributions by sex

histograms with smoothed histograms (fitted curves) (kernel density estimates) and fitted normal density curves for comparison





height distributions by sex (overlaid plot)

histograms with smoothed histograms (fitted curves) (kernel density estimates)

stat214 bmi distribution

The UNIVARIATE Procedure Variable: bmi

| | Basic Statistical Measures | | | | | | | | |
|--------|----------------------------|---------------------|----------|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | |
| Mean | 22.51924 | Std Deviation | 3.44410 | | | | | | |
| Median | 21.61575 | Variance | 11.86181 | | | | | | |
| Mode | 17.75253 | Range | 14.65553 | | | | | | |
| | | Interquartile Range | 4.87777 | | | | | | |

Note: The mode displayed is the smallest of 6 modes with a count of 2.

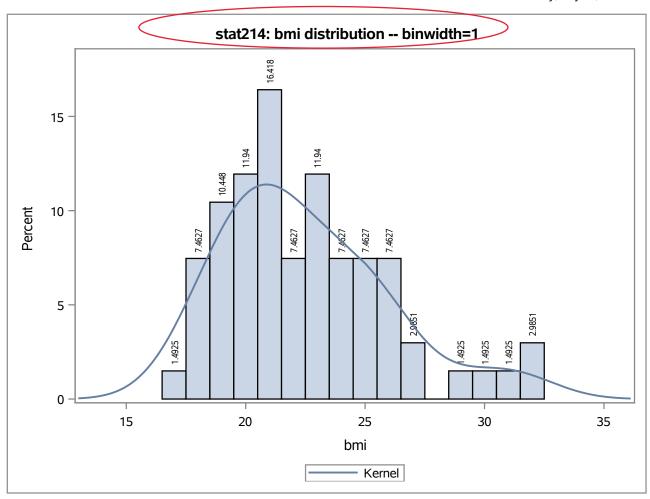
| Quantiles (E | Definition 5) |
|--------------|---------------|
| Level | Quantile |
| 100% Max | 31.8821 |
| 99% | 31.8821 |
| 95% | 30.1109 |
| 90% | 26.6288 |
| 75% Q3 | 24.9586 |
| 50% Median | 21.6158 |
| 25% Q1 | 20.0808 |
| 10% | 18.6357 |
| 5% | 18.0096 |
| 1% | 17.2266 |
| 0% Min | 17.2266 |

| Extreme Values | | | | | | | | | | |
|----------------|------------------------------|---|----|---------|------|--|--|--|--|--|
| | Lowest | | | Highest | | | | | | |
| Order | Order Value Freq Order Value | | | | Freq | | | | | |
| 1 | 17.2266 | 1 | 57 | 29.2612 | 1 | | | | | |
| 2 | 17.7525 | 2 | 58 | 30.1109 | 1 | | | | | |
| 3 | 18.0096 | 1 | 59 | 30.6635 | 1 | | | | | |
| 4 | 18.1371 | 1 | 60 | 31.7517 | 1 | | | | | |
| 5 | 18.3030 | 1 | 61 | 31.8821 | 1 | | | | | |

| | Analysis Variable : bmi | | | | | | | | | | |
|---|-------------------------|---------|---------|---------|---------|---------|--------|---------|--------|--|--|
| N Minimum Quartile Median Quartile Maximum Range Range Mean Std | | | | | | | | Std Dev | | | |
| 67 | 17.2266 | 20.0808 | 21.6158 | 24.9586 | 31.8821 | 14.6555 | 4.8778 | 22.5192 | 3.4441 | | |

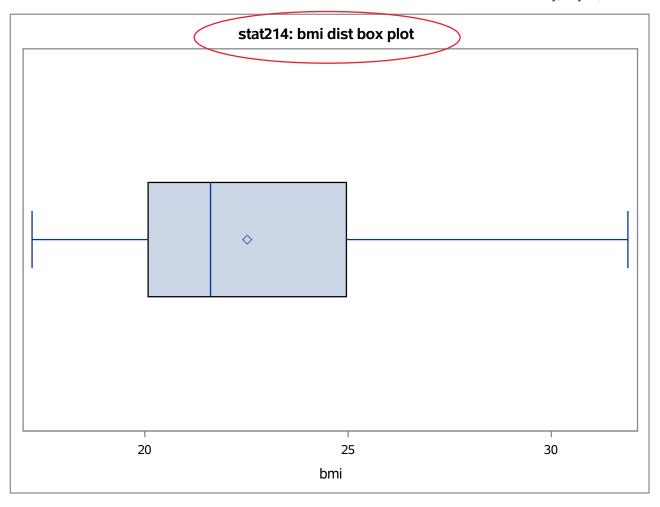
basic summary statistics

| | Analysis Variable : bmi | | | | | | | | | | |
|----------|---|--|--|--|--|--|--|--|-----------|---------|--|
| 1st Pctl | 1st Pcti 5th Pcti 10th Pcti 20th Pcti 30th Pcti 40th Pcti 50th Pcti 60th Pcti 70th Pcti 80th Pcti 90th Pcti 95th Pcti 99th Pcti | | | | | | | | 99th Pctl | | |
| 17.2266 | 17.2266 18.0096 18.6357 19.5756 20.3724 21.0315 21.6158 22.8870 24.0283 25.1019 26.6288 30.1109 31.8821 | | | | | | | | | 31.8821 | |



bmi distributions

histogram with smoothed histogram (fitted curves) (kernel density estimate)



The UNIVARIATE Procedure Variable: bmi sex = female

| Basic Statistical Measures | | | | | | | | |
|----------------------------|----------|---------------------|-------------|--|--|--|--|--|
| Loc | ation | Variability | Variability | | | | | |
| Mean | 22.07282 | Std Deviation | 3.50793 | | | | | |
| Median | 21.25472 | Variance | 12.30557 | | | | | |
| Mode | 17.75253 | Range | 14.65553 | | | | | |
| | | Interquartile Range | 3.82543 | | | | | |

Note: The mode displayed is the smallest of 4 modes with a count of 2.

| Quantiles (E | Definition 5) |
|--------------|---------------|
| Level | Quantile |
| 100% Max | 31.8821 |
| 99% | 31.8821 |
| 95% | 30.1109 |
| 90% | 26.6288 |
| 75% Q3 | 23.4011 |
| 50% Median | 21.2547 |
| 25% Q1 | 19.5756 |
| 10% | 18.3030 |
| 5% | 17.7525 |
| 1% | 17.2266 |
| 0% Min | 17.2266 |

| | Extreme Values | | | | | | | | | | |
|-------|------------------|---|----|---------|------|--|--|--|--|--|--|
| | Lowest | | | Highest | | | | | | | |
| Order | r Value Freq Ord | | | Value | Freq | | | | | | |
| 1 | 17.2266 | 1 | 43 | 27.4357 | 1 | | | | | | |
| 2 | 17.7525 | 2 | 44 | 29.2612 | 1 | | | | | | |
| 3 | 18.0096 | 1 | 45 | 30.1109 | 1 | | | | | | |
| 4 | 18.1371 | 1 | 46 | 31.7517 | 1 | | | | | | |
| 5 | 18.3030 | 1 | 47 | 31.8821 | 1 | | | | | | |

The UNIVARIATE Procedure Variable: bmi sex = male

| Basic Statistical Measures | | | | | | | | | |
|----------------------------|----------|---------------------|----------|--|--|--|--|--|--|
| Loc | ation | Variability | | | | | | | |
| Mean | 23.94224 | Std Deviation | 2.88719 | | | | | | |
| Median | 24.74875 | Variance | 8.33588 | | | | | | |
| Mode | 25.10187 | Range | 11.67811 | | | | | | |
| | | Interquartile Range | 3.57154 | | | | | | |

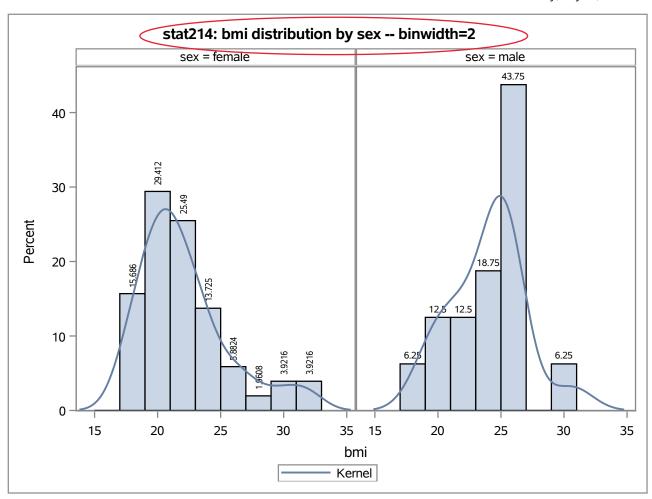
| Quantiles (Definition 5) | | | | | | | | |
|--------------------------|----------|--|--|--|--|--|--|--|
| Level | Quantile | | | | | | | |
| 100% Max | 30.6635 | | | | | | | |
| 99% | 30.6635 | | | | | | | |
| 95% | 30.6635 | | | | | | | |
| 90% | 25.9569 | | | | | | | |
| 75% Q3 | 25.3638 | | | | | | | |
| 50% Median | 24.7487 | | | | | | | |
| 25% Q1 | 21.7923 | | | | | | | |
| 10% | 19.7643 | | | | | | | |
| 5% | 18.9853 | | | | | | | |
| 1% | 18.9853 | | | | | | | |
| 0% Min | 18.9853 | | | | | | | |

| Extreme Values | | | | | | | | | | | |
|----------------|---------|------|---------|---------|------|--|--|--|--|--|--|
| | Lowest | | Highest | | | | | | | | |
| Order | Value | Freq | Order | Value | Freq | | | | | | |
| 1 | 18.9853 | 1 | 11 | 25.1071 | 1 | | | | | | |
| 2 | 19.7643 | 1 | 12 | 25.6204 | 1 | | | | | | |
| 3 | 20.5244 | 1 | 13 | 25.7658 | 1 | | | | | | |
| 4 | 21.6158 | 1 | 14 | 25.9569 | 1 | | | | | | |
| 5 | 21.9688 | 1 | 15 | 30.6635 | 1 | | | | | | |

| Analysis Variable : bmi | | | | | | | | | | | |
|-------------------------|----------|----|---------|---------|---------|---------|---------------|---------|--------|---------|--------|
| sex | N Obs | | | Median | Upper | | Maximum Range | | Mean | Std Dev | |
| female | 51 | 51 | 17.2266 | 19.5756 | 21.2547 | 23.4011 | 31.8821 | 14.6555 | 3.8254 | 22.0728 | 3.5079 |
| male | 16 | 16 | 18.9853 | 21.7923 | 24.7487 | 25.3638 | 30.6635 | 11.6781 | 3.5715 | 23.9422 | 2.8872 |

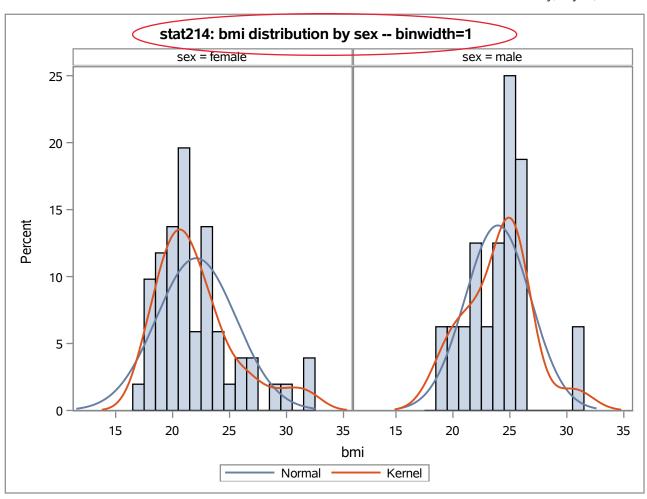
basic summary statistics

| Analysis Variable : bmi | | | | | | | | | | | | | | |
|-------------------------|----------|----------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| sex | N Obs | 1st Pctl | 5th Pctl | 10th Pctl | 20th Pctl | 30th Pctl | 40th Pctl | 50th Pctl | 60th Pctl | 70th Pctl | 80th Pctl | 90th Pctl | 95th Pctl | 99th Pctl |
| female | 51 | 17.2266 | 17.7525 | 18.3030 | 19.3664 | 20.1136 | 20.5957 | 21.2547 | 21.9156 | 22.8870 | 24.0283 | 26.6288 | 30.1109 | 31.8821 |
| male | 16 | 18.9853 | 18.9853 | 19.7643 | 21.6158 | 21.9688 | 24.3919 | 24.7487 | 25.1019 | 25.1071 | 25.6204 | 25.9569 | 30.6635 | 30.6635 |



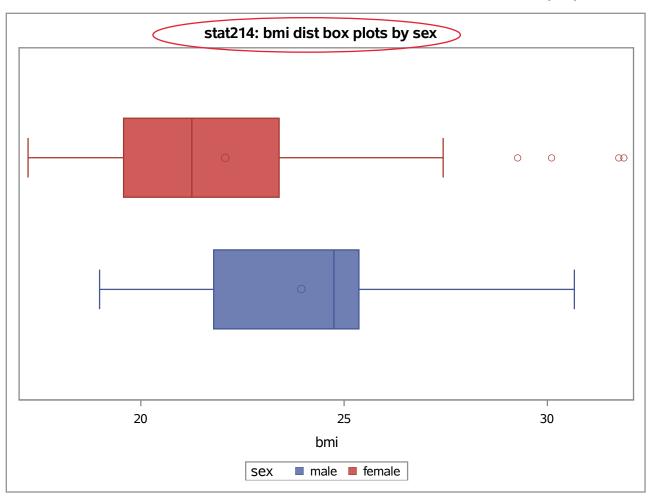
bmi distributions by sex

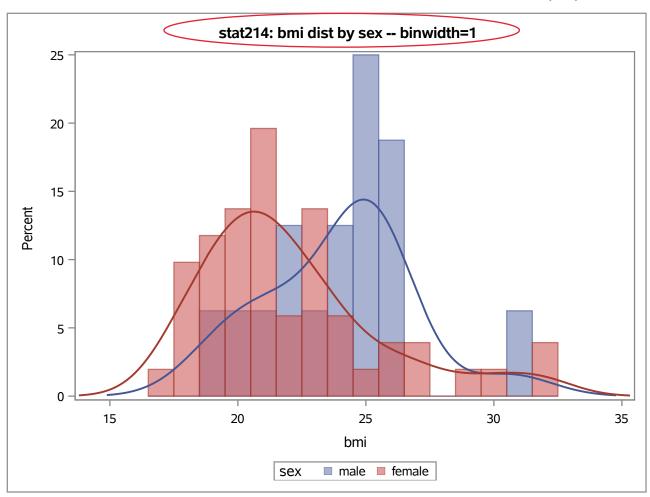
histograms with smoothed histograms (fitted curves) (kernel density estimates)



bmi distributions by sex

histograms with smoothed histograms (fitted curves) (kernel density estimates) and fitted normal density curves for comparison





bmi distributions by sex (overlaid plot)

histograms with smoothed histograms (fitted curves)