

# Statistical Investigation

- Weights to nearest Kg

- Blonde –

58,54,58,49,53,61,58,54,52,63,47,53,52,53,53,48,53,44,53,47,54,51,46,45,66,70,48,49,64,61,56

- Brunette-

73,36,44,28,60,45,44,61,50,31,41,38,53,35,30,54,51,50,48

Write a question to investigate .

- How do weights of blondes and brunette's compare?( form your own appropriate question)
- Calculate appropriate statistics and draw appropriate graphs.
- Write a conclusion – answer your question explaining by referring to your statistics or graphs (stem and leaf/ box & whiskers)
- Evaluate the results



To compare the weights of blondes and brunettes.

Minimum:

Lower Quartile:

Median:

Mean:

Upper Quartile:

Range:

Interquartile Range:

Maximum:

# Conclusion

- Blondes appear to weigh \_\_\_\_\_ than brunettes.
- Evidence of this is:
- The Median weight of \_\_\_\_\_ is higher than the \_\_\_\_\_ weight of \_\_\_\_\_. ( \_\_\_\_\_ kg in b \_\_\_\_\_ as compared to \_\_\_\_\_ kg in B \_\_\_\_\_).
- The mean weight of \_\_\_\_\_ is higher than the mean weight of \_\_\_\_\_. blondes mean is \_\_\_\_\_ kg compared to brunettes mean which is \_\_\_\_\_).
- Both measures of central tendency are \_\_\_\_\_ for b \_\_\_\_\_ than b \_\_\_\_\_.
- 4/5 of the critical values (min, LQ, median, UQ, mean) for blondes are \_\_\_\_\_ (higher/lower) than brunettes.
- There is \_\_\_\_\_ (less/high) variation in the weights of blonde compared to brunettes. (range of \_\_\_\_\_ kg compared to \_\_\_\_\_ kg).
- 50% of \_\_\_\_\_ weigh more than 75% of the \_\_\_\_\_.