

Conclusion

This section evaluates and interprets the data obtained. Be sure to state whether or not your hypothesis was supported by your data. Your opinion of the results may be expressed in this section. A decision should be made about the meaning of the results. If the data in the results shows that water samples contained too much lead, the conclusion should state that this means people should not drink the water.

Experimental error should be estimated and considered when drawing the conclusion. To approximate the standard deviation, divide the range of measurements for each group by 4. Then add and subtract twice the approximate value of the standard deviation from the average of measurements. If the intervals computed for your two groups of measurements overlap, there is no difference. If the intervals do not overlap, there is a significant difference in the two groups

Measurement errors can often be reduced by collecting more data, better control of the measurement process, or better control of the experimental variables. Discuss how you reduced measurement error in your experiment. If you can describe improvements that you would make to reduce your experimental error, discuss that also. Select this paragraph and write your conclusion.