

Name _____

Section _____ Date _____

Report for Experiment 19

Measuring A Book? Precisely!

Analysis and Conclusions

1. Which ruler gives you the most precise measure of the perimeter and area of the cover of your chemistry textbook? Why?
2. Which ruler gives you the least precise measure of the perimeter and area of the cover of your chemistry textbook? Why?
3. Justify the number of significant figures in each of your measurements.
4. Justify the number of significant figures in each of your calculations.

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5. Compare your measurements with other groups. For which ruler was there the most difference among groups? The least difference? Explain.
6. Compare your calculations with other groups. For which ruler was there the most difference among groups? The least difference? Explain.

Summary Table

Record your measurements and calculations in the table below.

Ruler #	length	width	length	width	perimeter	area
1	ft	ft	cm	cm	cm	cm ²
2	in	in	cm	cm	cm	cm ²
3	cm	cm	X cm	X cm	cm	cm ²
4	cm	cm	X cm	X cm	cm	cm ²

Something Extra

For each ruler, what is the largest length that you can measure that you would report as a measurement of zero? Explain.