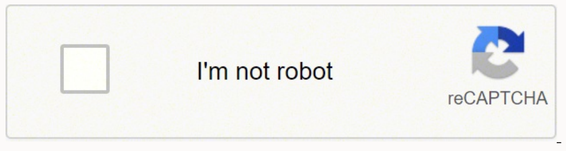

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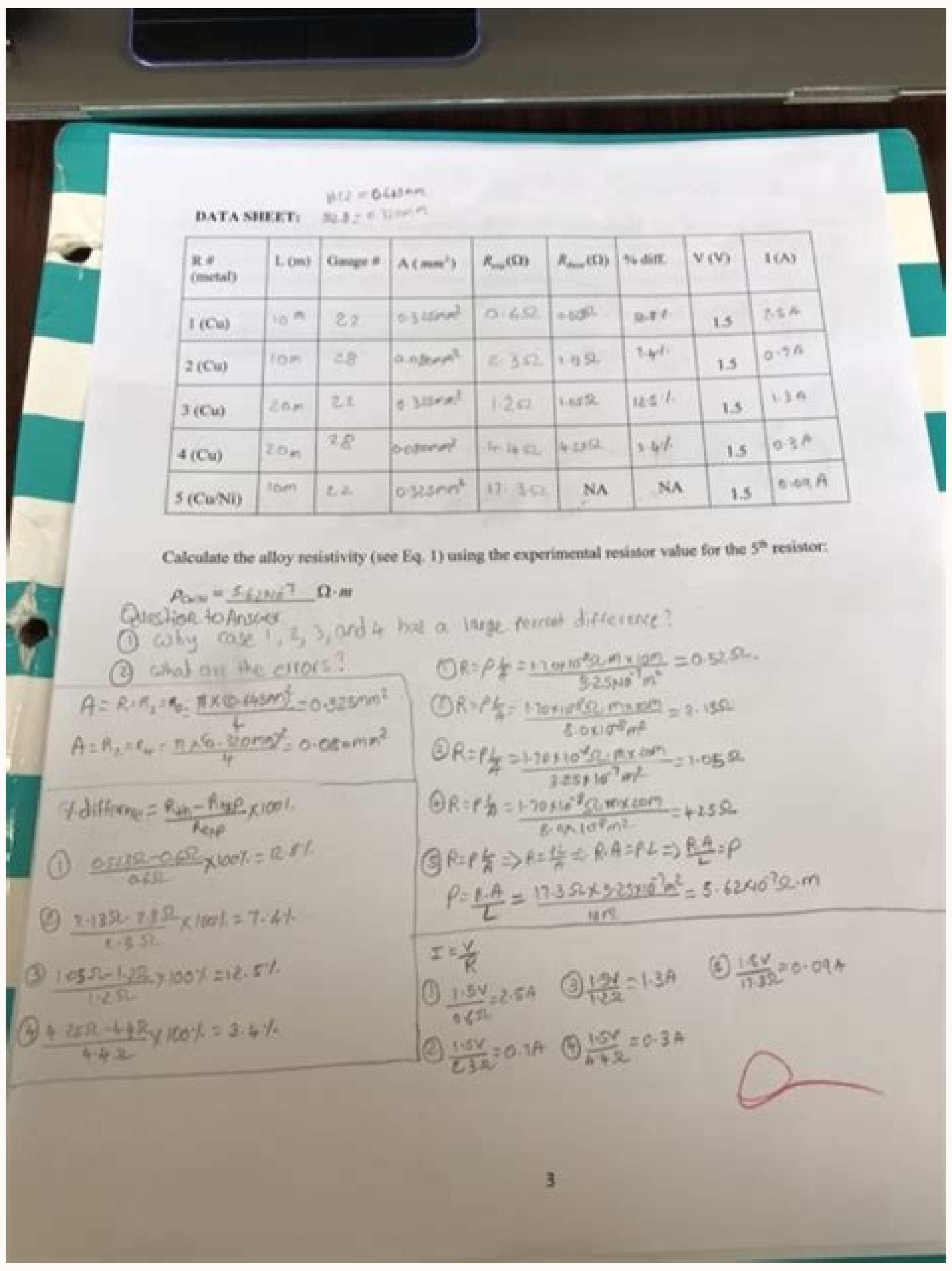
Resistivity lab report conclusion

Ohm's Law and Resistivity Lab Questions and Results

Introduction:

Questions: Part A; Part B



DATA SHEET:

R # (metal)	L (m)	Gauge #	A (mm^2)	R_{exp} (Ω)	R_{theo} (Ω)	% diff.	V (V)	I (A)
1 (Cu)	10 m	22	0.325mm²	0.6Ω	0.52Ω	12.8%	1.5	2.5A
2 (Cu)	10m	28	0.08mm²	2.3Ω	2.13Ω	7.4%	1.5	0.7A
3 (Cu)	20m	22	0.325mm²	1.2Ω	1.05Ω	12.5%	1.5	1.3A
4 (Cu)	20m	28	0.08mm²	4.4Ω	4.25Ω	3.4%	1.5	0.3A
5 (Cu/Ni)	10m	22	0.325mm²	17.3Ω	NA	NA	1.5	0.09A

Calculate the alloy resistivity (see Eq. 1) using the experimental resistor value for the 5th resistor:

ρ_{CuNi} = 5.62×10⁻⁷ Ω·m

Question to Answer

① why case 1, 2, 3, and 4 had a large percent difference?

② what are the errors?

3

Lab report structure

Every group has to write a laboratory report after having performed a laboratory experiment. The report has to be handed in to the instructor latest by the beginning of the next Lab session. Point will be deduced for late submission: 2 points first day + 1 point each following day. All members of the group who handed the report get the same grade.

Front page: This page contains the title of the experiment, the date, your names, your section, and the name of the other students if you have worked in group.

Abstract: in a few sentences (one paragraph) summarize your report

- What did you measure?

- What did you find? Numerical results including error.

- What are the conclusions?

Abstract should be complete by itself: one does not need to read the rest of the report to understand the abstract, and the rest of the report should not make reference to info given in the abstract (i.e. you have to repeat this info in the report).

Tip: write the abstract after finishing the report so you know your numerical result and your conclusions. Then place it at the beginning of the report.

Important: Abstract is a summary not an introduction.

Introduction:

- Why do you measure it?

- What is the theoretical background? Give all useful equations and describe all terms in the equations.

- What results could you have expected before doing the experiment?

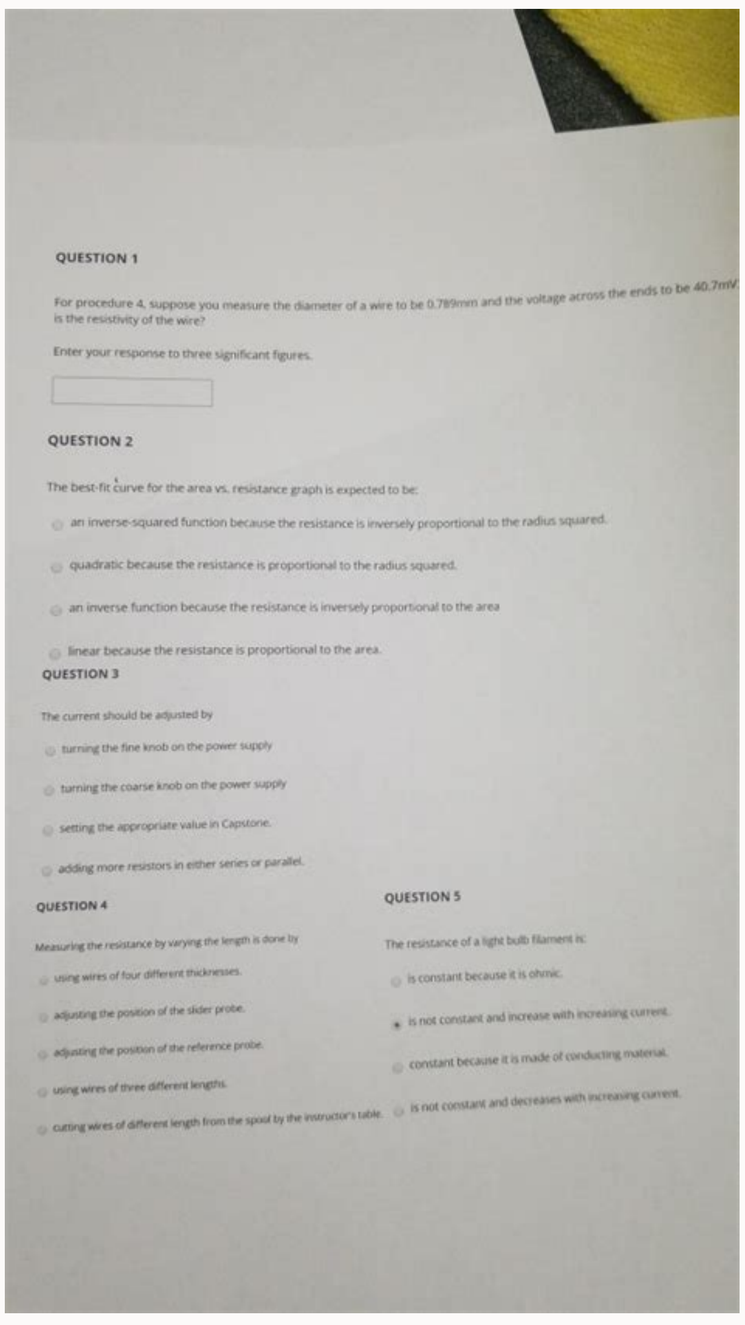
Experimental setup:

- describe (+diagram) the instruments you used (use sentences not list!)

- describe very precisely how you made the experiment (experimental part not data analysis)

- put name of manufacturer, product number, be as precise as possible.

Results:



How to write a lab report conclusion. How do you conclude a lab report. Resistivity of a wire lab report. What should be in a conclusion for a lab report.

This shows that the resistance is directly proportional to the length of the wire. Try to investigate the factors that influence the request for resistance as a link can be generated between factors and resistance? If the length has doubled, it means that the electron must come across twice more particles of ions present in the wire, which causes the fall of the average speed of the electron movement. However, the formula cannot be designed and the data cannot be entered into a chart due to the incapacity to measure the increase in thread temperature. Thus, R Î ± L Experiment 2 design aims to investigate the relationship between resistance of a conductor and transversal area of the wire hypothesis. Broader is the area of the transversal section of the thread, the lower the resistance variables are the constant variables of the current and voltage through the circuit using the same batteries with each of the experiments to ensure the constancy of the voltage and current manipulated l 'Area of the transversal section of the wire using different wires with different diameters by identifying the switch SWG that responds to the resistance of the circuit calculates the resistance by lowering the voltage and the current, replacing them in the Formula V = IR Appotuss device 1. Ã, Ã, Ã, Ã, Ã, Ã, ã, ã, 2 2 crocodile clips (red and black) 3. 2 1.5V batteries 4. Nichrome cable SWG26 1. Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã 1 1 m 1 m SWG26 Nichrome Wire 5. Ã, Ã, Ã, 1 1 m 1 m 1 m 1 m SWG28 Nichrome procedure 1. Arrange the appliance accordingly to the declared circuit 2. Ã, Ã, Ã, Ã, Ã , Ã, Ã, Ã, â € œ is, completes the circuit with the SWG 26 1M Nichr ome cable 3. Note Reading the ammeter reading 4 . Repeat the â €

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