

Lab: Metric Length (ec printing 5pts) Name _____ Period ____

Part One: Length of thumb

Did you know...no matter what your size, everyone has the same size thumb?

1. Measure from the tip of your thumb to the first knuckle in centimeters.
2. Record the results for you and your group's thumbs in your table.
3. Write your thumb measurements on the white board.

Names	Thumb length (cm)

Part Two: Forearm to Foot

Did you know...the length of your forearm is equal to your foot?

1. Measure from your wrist to your elbow in centimeters.
2. Record the results for you and your group in your table.
3. Measure the length of your foot in centimeters.
4. Record the results for you and your group in your table.

Names	Forearm length (cm)	Foot length (cm)

Part Three: Height to Arm span

Did you know...your arm span is equal to your height?

1. Measure your height in centimeters.
2. Record the results for you and your group in your table.
3. Measure from the tip of your fingers to the tip of your fingers on the other arm in centimeters.
4. Record the results for you and your group in your table.

Name	Height (cm)	Arm span (cm)

Conclusion/Analysis:

1. Look at all the thumb measurements for the class on the whiteboard. Speculate what the average thumb measurement is: _____ cm
2. How close are everyone's thumb measurements?
3. Give one possible explanation for why that is. Justify your answer.
4. How many centimeters different are your forearm and your foot? _____
5. If the difference between your forearm and your foot is 2 cm or less, they are considered equal. If yours are equal, give one possible explanation for why that is. If yours are not equal, give one possible explanation for why that is. Justify your answer.
6. How many centimeters different is your height from your arm span? _____
7. If the difference between your height and your arm span is 4 cm or less, they are considered equal. If yours are equal, give one possible explanation for why that is. If yours are not equal, give one possible explanation for why that is. Justify your answer.

Final Conclusion: 5 sentences what you learned in this experiment, and how that will impact your understanding of measurement.