

1.4 Stanford Notes – *Measurements*

Name _____

MAIN POINTS: Write a sentence summary of the main point of each paragraph on the below pages.

Questions: Questions you should be able to answer after reading. **Answers must be in complete sentences!!**

p. 18
1.

2. DO NOT READ PARAGRAPH #2 AND SKIP PAGE 19.

- 1) How many significant digits does the number 6.57cm have?
- 2) How many significant digits does the number 45 have?

p. 20
1.

2.

3.

4.

Vocab:
Accuracy:

Precision:

Resolution:

- 1) _____ refers to the smallest interval that can be measured.
- 2) When you describe how close a measured quantity is to a true or accepted value, you are describing its _____.
- 3) _____ describes how close together repeated measurements are.

Measurement take by:	Length of toy cart (cm)
Jessica	10
Marco	10.5
Julius	10.8
Steve	11

Figure 1.13: Question 3.

- Four different students measure the length of a toy cart. The manufacturer reports the true length to be 10.5cm. Study the data in the table above and answer the below:
- 4) Are the measurements accurate? Explain why or why not.
 - 5) Are the measurements precise? Explain why or why not.
 - 6) Do the measurements all have the same resolution? Explain.