

### 3.6: General Questions

1. For which system (Reaction time, Burning Candle, or Clocks) did your team obtain the most precise measurements? Explain.
2. A systematic error will definitely affect (choose one)
  - a. Precision
  - b. Accuracy
  - c. Both precision and accuracy
3. Teresa, Alexes, and Krystina, having received degrees in paleontology, each measure the length, in centimeters, of a dinosaur bone unearthed by their dog Bacall. Bacall, having more experience with bones, measured the bone once and obtained the correct value. Calculate the average measurement obtained by each person.

Table 3.6.1: Average measurement obtained by each person

	Teresa	Alexes	Krystina	Bacall
	2.0	7.3	7.0	7.3
	2.1	9.1	7.3	
	1.9	5.8	7.2	
	2.0	7.0	7.1	
Average				

- a. Whose measurements are accurate and precise?
- b. Whose measurements are precise but not accurate?
- c. Whose measurements are accurate but not precise?
- d. Whose measurements are accurate, but have no measure of precision?
- e. Whose measurements are probably a result of a systematic error?
- f. Calculate the percent error for Teresa, Alexes, and Krystina.

Table 3.6.2: Percent error calculation

	% Error
Teresa	
Alexes	
Krystina	

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