



6TH SCIENCE

UNIT 1: SCIENTIFIC METHOD

HOMework

Name : _____

Date : _____

Scientific Method Practice Test

PART A: Multiple Choice

Circle the correct answer.

1) The information you collect while doing your experiment is called

_____.

- a. conclusions
- b. data
- c. hypotheses
- d. procedures

2) The _____ answers the problem you are trying to solve in an experiment and explains the results to others.

- a. procedure
- b. hypothesis
- c. conclusion
- d. data



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3) A(n) _____ is what you can learn about an object by using your 5 senses.

- a. Qualitative Observation
- b. Quantitative Observation
- c. Inference
- d. Hypothesis

4) Something that you keep the same in an experiment is called a(n) _____.

- a. variable
- b. control
- c. procedure
- d. conclusion

5) I want to know if low strength bleach, medium strength bleach, or maximum strength bleach will get Heinz ketchup stains out of white T-shirts the best. What is the variable in this experiment?

- a. the type of stain
- b. the strength of the bleach
- c. the color of shirt
- d. the brand of ketchup

6) How many variables should you have in an experiment?

- a. two
- b. as many as possible
- c. four
- d. one

PART B: Classify the following statements as Qualitative Observations, Quantitative Observations, or Inferences. Write your answers on the lines provide.

7) The trees outside of the school have large, green leaves growing on them.

8) Mr. Wells is probably not in school today because his is sick. _____

9) The plastic bottle holds two liters of soda. _____



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10) The carpenter hammered 430 nails into Mariah's new porch. _____

11) Rebecca's knee was probably swollen due to an injury in yesterday's soccer game.

PART C: Fill in the 7 steps of the scientific method. WRITE THE ENTIRE PHRASE, not just one word!

12) The Scientific Method

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

PART D: Sample Experiment

Scientific Question: Which blows larger bubbles, Bubblicious bubble gum or Bubble Yum bubble gum?

13) What is your hypothesis? (write a strong hypothesis—make sure it includes the three parts!!)

14) What is the variable in this experiment? (be specific)

15) List four of the most important controls needed in this experiment. (be specific)

1. _____ 2. _____

3. _____ 4. _____



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PART E: The following data was collected in the experiment. Look at the data, and then answer the questions that follow.

Scientific Question: Does bread mold faster in warm or cool temperatures?

Data:

Time for Bread to Mold at Various Temperatures

Temperature (°F)	Time to Mold (days)
20	7
40	6
60	4
80	3
100	1

16) At what temperature did bread mold the slowest? _____

17) At what temperature did bread mold the fastest? _____

18) As temperature increases, the time for the bread to mold _____. (increases or decreases)

19) The scientific question was “Does bread mold faster in warm or cool temperatures?” After looking at the data provided, what would your conclusion be? Make sure to include the answer to the question, and data to support your answer!!
