Name:
Science 7

Date:
Class Period:

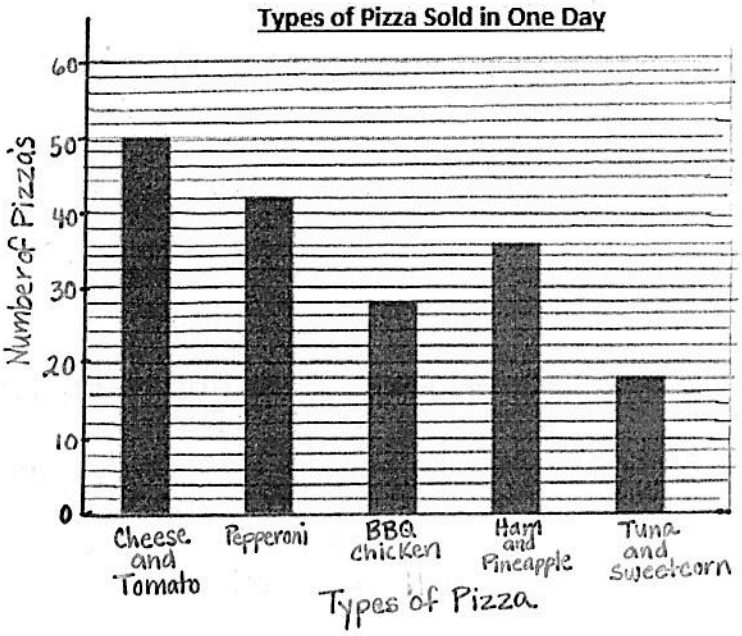
Test 1 Review Sheet

Topics:
Science Safety
Scientific Method
Observations & Inferences
Parts of an Experiment (variables)
Graphing

Test Date: Wednesday 9/25

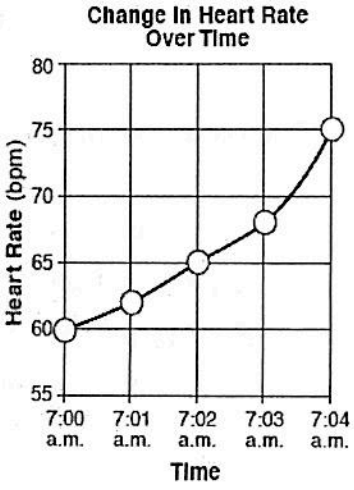
Practice Questions:

Base your answers to questions 1-4 on the bar graph.



1. Which type of pizza had the least amount of sales? Tuna and Sweetcorn
2. Which type of pizza had the most amount of sales? Cheese and Tomato
3. Which type of pizza had 42 sales? Pepperoni
4. How many Barbecue chicken pizzas were sold? 28 Pizzas

Use the line graph to the right to answer questions 5-8

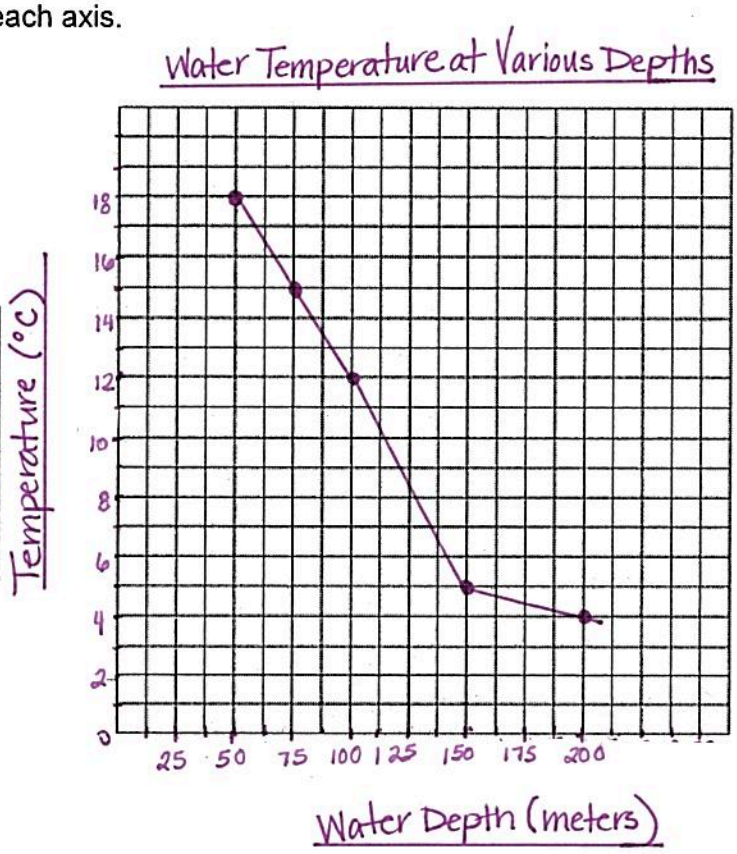


5. What was the heart rate at 7am? 60 bpm
6. What was the approximate heart rate at 7:03am? 68 bpm
7. How much lower was the heart rate at 7:02am than at 7:04 am? 10 bpm
8. At what time was the heart rate the highest? 7:04 am

9. Use the data table below to create a line graph. Your graph must include a title and appropriate scale and label for each axis.

Water Temperatures at Various Depths

Water Depth (meters)	Temperature (°C)
50	18
75	15
100	12
150	5
200	4



10. Define qualitative observation- observations that can be made using our senses. Describes

11. Give an example of a qualitative observation- Her hair is brown. The tables are smooth.

12. Define quantitative observation- Observations that are measurable.
quantitative = Numbers

13. Give an example of a quantitative observation- There are 14 boys in this class. There are 6 windows in the room.

14. Define inference- A probable explanation for an observation.

15. Give an example of an inference- The sky is dark. There must be a storm coming.
(Inferences are underlined) I smell fire. Someone must be having a BBQ

16. Provide at least 5 general science safety rules-

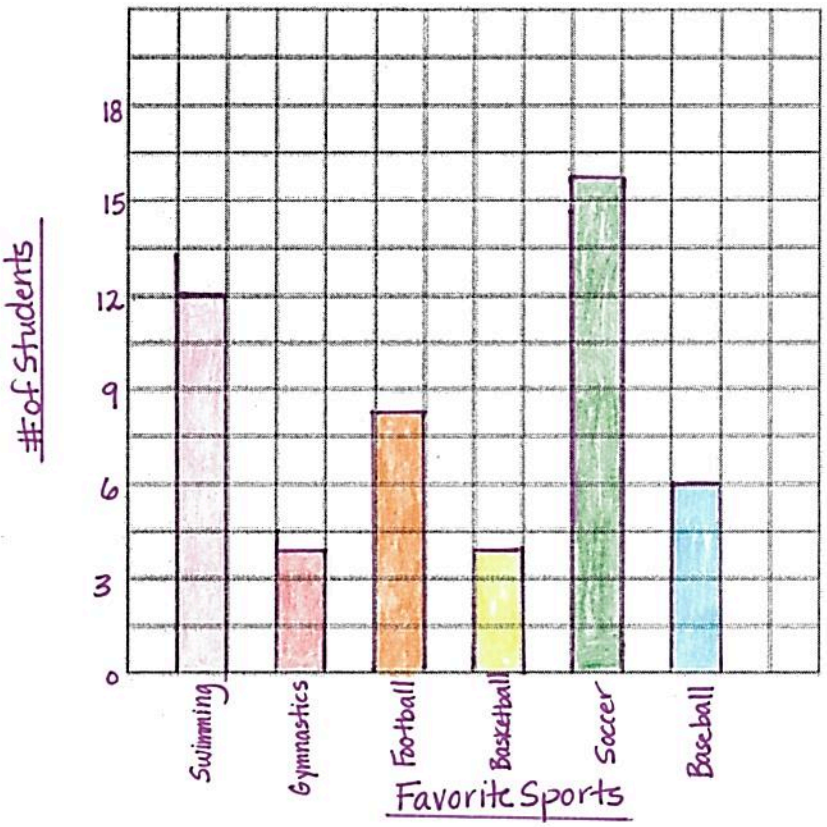
1. Keep hands away from face.
2. No horseplay or practical jokes in the lab.
3. Know the location of all safety equipment.
4. It is always necessary to report accidents even minor ones.
5. Never eat or drink in the lab.
6. Wear goggles.

17. Use the data table to create a bar graph. Your graph must include a title and an appropriate scale and label for each axis.

Favorite Sports of Students

Favorite Sports of Students

Sports	# of students
Swimming	12
Gymnastics	4
Football	8
Basketball	4
Soccer	16
Baseball	6



18. A student designs an experiment to test which brand of sunblock is most effective at preventing a sunburn.

Identify the independent variable: The brands of sunblock

Identify the dependent variable: Exposure time before sunburn or severity of sunburn

Identify at least 2 constants: Amt. of sunblock used; Amt. of time in the sun; location

Identify the control group: No sunblock used

Identify the experimental group: Use of Sunblock

19. What are the steps of the scientific method? ***Briefly*** describe each one. *Make sure it is in the correct order!!!*

REPEAT

- Problem - always in the form of a question
- Research - Look up the topic to help form a hypothesis.
- Hypothesis - an educated guess based on prior knowlege and research.
- Experiment - Test if hypothesis is right or wrong.
- Observation - The gathering of information using one, some or all of your 5 senses
- Results and Analyze - Write down all observations. Create charts, graphs, data tables.
- Conclusion - Explains data. States if hypothesis is right or wrong.