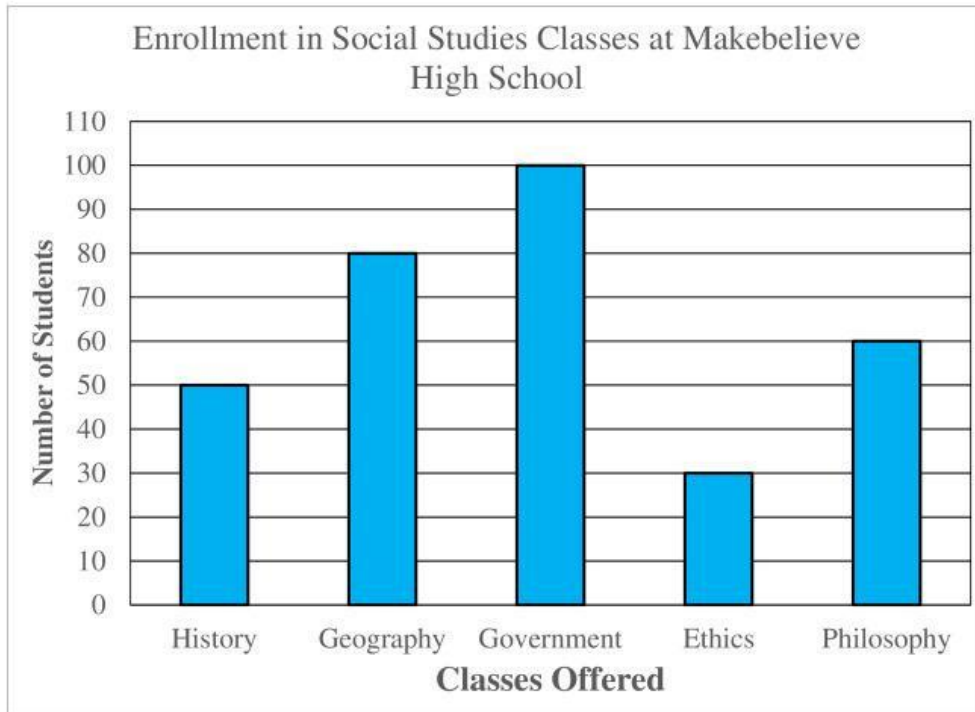Name: _____ Date: _____

Graph Interpretation part 1

Instructions

1. Read the notes Graphs and Interpreting Graphs.
2. Make your own notes about graphs as you read the notes.
3. Start on the assignment. Reach each question carefully.
   - For multiple choice questions, use the drop-down box to choose the letter of the correct answer.
   - For number-value answers, type ONLY THE NUMBER into the gray-shaded box. No units or letters.
   - For the two questions requiring short answers, type your sentences into the rectangular boxes.
4. Use the "Save for Later" button at the bottom of the document to preserve your work. You should press "Save for Later" after completing each section.
5. Use the "Finish!!" button at the bottom of the document to submit your work for grading. You should press "Finish!!" only when totally completed.

Graph 1: Enrollment of Students in Social Studies Classes. Makebelieve High School offers five social studies classes for 11th grade students. Students are required to choose one class and no more. The graph shows the enrollment (how many students) were placed into each class. Students are only enrolled in one class.
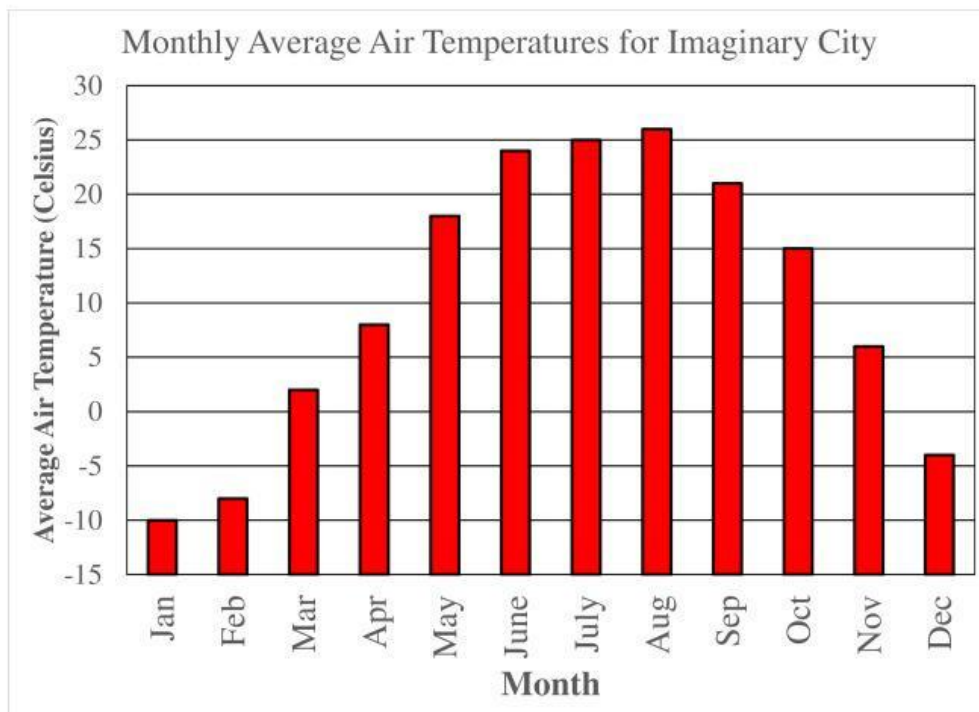
Enrollment in Social Studies Classes at Makebelieve High School

1. **Complete the table**. Type the number of students in each class. Use only whole numbers.

Number of Students	Class
	History
	Geography
	Government
	Ethics
	Philosophy

_____ 2. Which class is the most popular class for 11th grade high school students?
A. Ethics
B. Geography
C. Government
D. History
E. Philosophy

_____ 3. Which class is the least popular class for 11th grade high school students?
A. Ethics
B. Geography
C. Government
D. History
E. Philosophy

4. How many 11th graders attend Makebelieve High School? Type your answer in the box. Use only a whole number.

Graph 2: Monthly Average Temperature for Imaginary City. Farley works for the city. He is collecting air temperature data. He will send his report to the director of public planning. Using the graph for monthly average air temperatures, answer the questions to the best of your ability.

Monthly Average Air Temperatures for Imaginary City

5. **Complete the table**. Type the monthly average air temperature for each month. Use only numbers. Your answers should be whole numbers (no decimals). Some of the temperatures are positive. Some are negative.

Avg. Temp	Month		Avg. Temp	Month
	January			July
	February			August
	March			September
	April			October
	May			November
	June			December

_____ 6. In which months is the air temperature getting progressively warmer and warmer?
A. November, December, January, February
B. March, April, May, June
C. June, July, August, September
D. September, October, November, December

_____ 7. In which months is the air temperature getting progressively cooler and cooler?
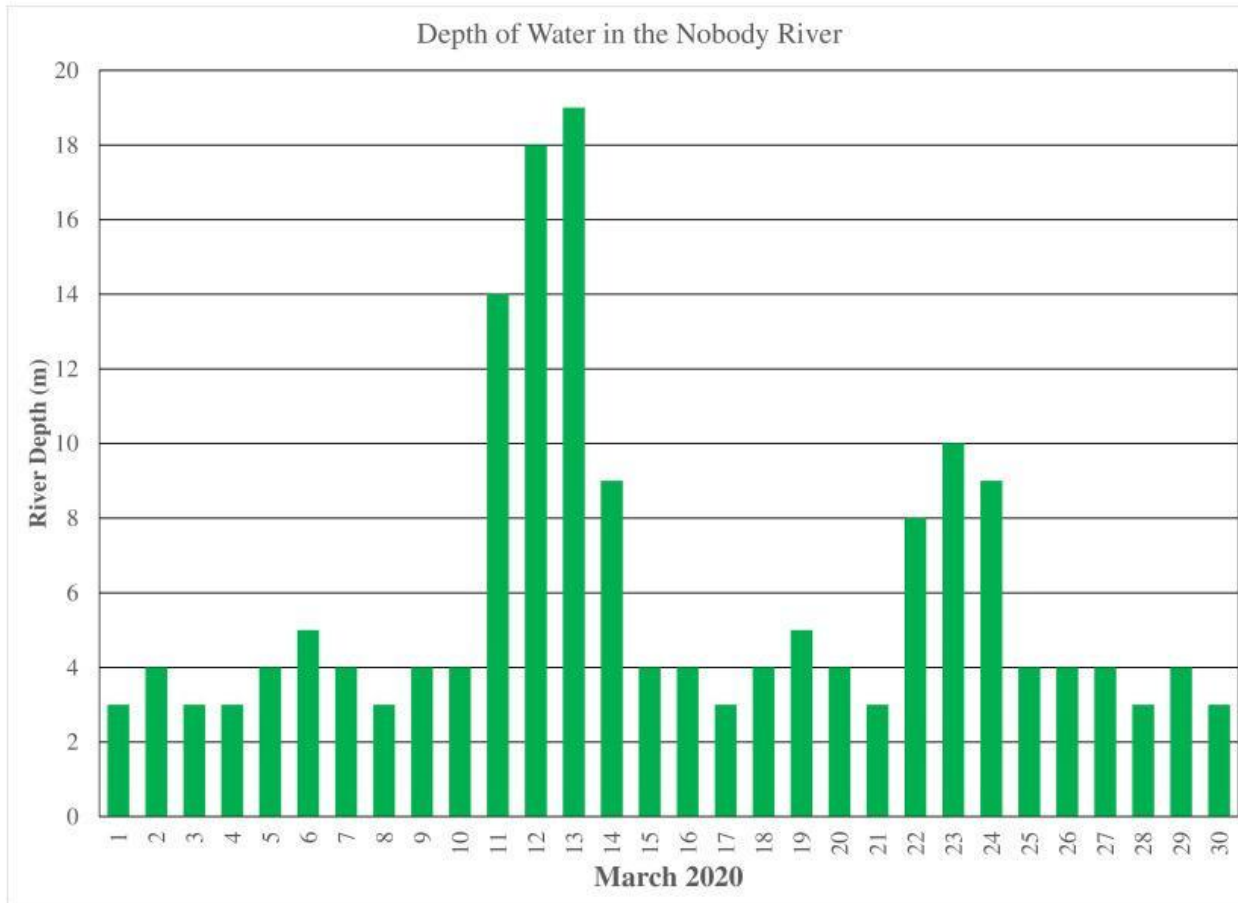A. November, December, January, February
B. March, April, May, June
C. June, July, August, September
D. September, October, November, December

8. Investigate and answer. Is Imaginary City located in the Northern Hemisphere or in the Southern Hemisphere? Write one complete sentence that defends your answer about in which hemisphere Imaginary City lies.

Graph 3: The depth of water in the Nobody River. The Nobody River is a small river that runs through Imaginary City. Using the graph for water depth in the Nobody River, answer the questions about the river's water content for the days in month of March 2020.

Depth of Water in the Nobody River

9. **Complete the table**. Type the depth of the river for the specific day. Use only numbers. Your answers should be whole numbers (no decimals).

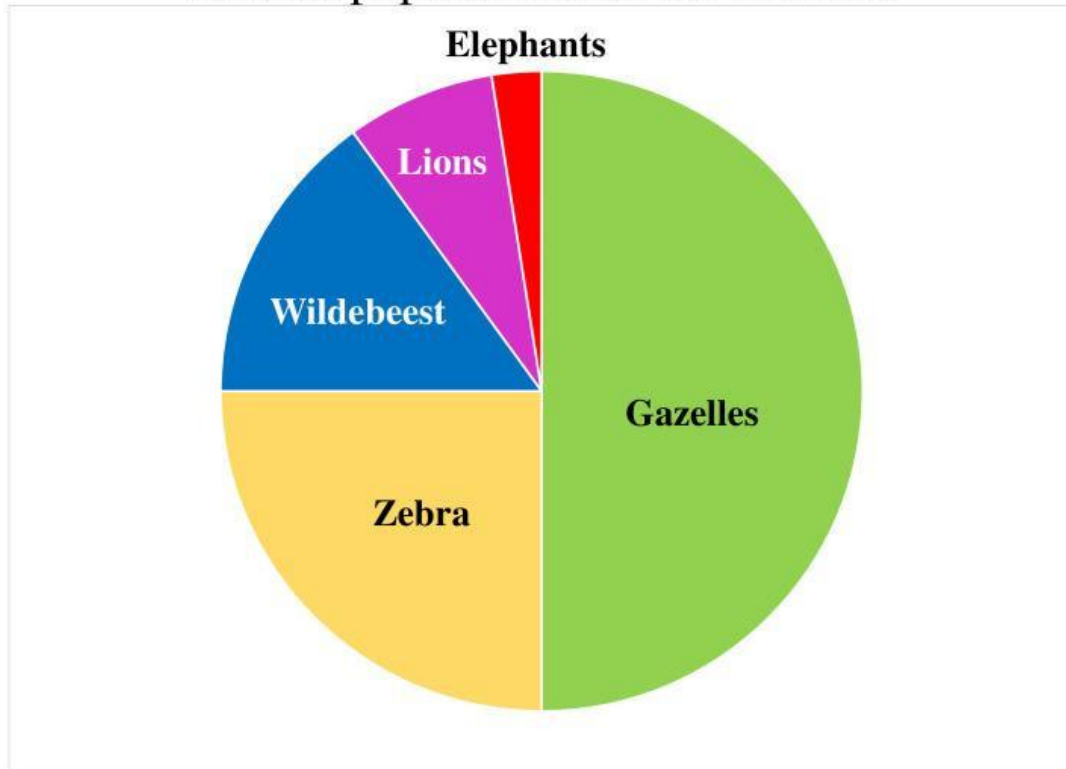| Depth (m)	Day	Depth (m)	Day
	Mar 1		Mar 19
	Mar 4		Mar 22
	Mar 9		Mar 24
	Mar 13		Mar 27
	Mar 16		Mar 30

10. Study the graph of water depth in the Nobody River. In one complete sentence, explain what would cause a sudden increase in water in the river.

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_____ 11. How many events in March caused the water in the Nobody River to rise a lot? (get deeper)
        A. 0 events   C. 2 events
        B. 1 event   D. 4 events

_____ 12. If there were no outside events influencing the Nobody River, what would most likely be the average, long-term depth of the river?
        A. 3-4 meters deep   C. 9-10 meters deep
        B. 5-8 meters deep   D. 11-19 meters deep

_____ 13. How many days did the river depth run "high" the during the first event?
        A. 1 day   C. 3 days
        B. 2 days   D. 4 days

_____ 14. How many days did the river depth run "high" during the second event?
        A. 1 day   C. 3 days
        B. 2 days   D. 4 days

Graph 4: Animal populations on the African Savanna. African Savanna is a tropical grassland biome. There are no trees. Kimberly is an animal behavioralist. She went on safari to the Savanna to count animal populations.   counted a total of 2000 animals across five species (types of animals).

Elephants, wildebeest, gazelles, and zebras are herbivores. Herbivores are animals that eat plants. Lions are carnivores. Carnivores are animals that eat meat (other animals).

Animal populations on the Savanna

_____ 15. Which animal or animals have the smallest population?
  A. Elephant   D. Wildebeest
  B. Gazelle   E. Zebra
  C. Lion

_____ 16. Which animal or animals have the largest population?
  A. Elephant   D. Wildebeest
  B. Gazelle   E. Zebra
  C. Lion

_____ 17.

Kimberly counted a total of 2000 animals on the Savanna. Based on the pie graph, how many of those animals were gazelles?

A. 50
B. 150
C. 300
D. 500
E. 1000

_____ 18.

Kimberly counted a total of 2000 animals on the Savanna. Based on the pie graph, how many of those animals were Wildebeest?

A. 50
B. 150
C. 300
D. 500
E. 1000

_____ 19.

Kimberly counted a total of 2000 animals on the Savanna. Based on the pie graph, how many of those animals were Elephants?

A. 50
B. 150
C. 300
D. 500
E. 1000

_____ 20.

Kimberly counted a total of 2000 animals on the Savanna. Based on the pie graph, how many total herbivores lived on the Savanna and how many total carnivores lived on the Savanna?

A. 1000 herbivores and 1000 carnivores
B. 1500 herbivores and 500 carnivores
C. 1800 herbivores and 200 carnivores
D. 1850 herbivores and 150 carnivores
D. 1950 herbivores and 50 carnivores