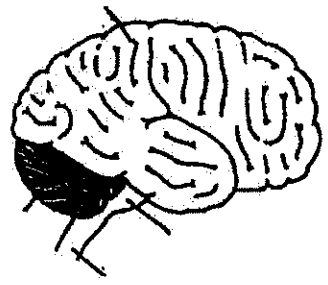


Name \_\_\_\_\_

## Lab Observation: Sheep Brains

### PART A: The Whole Brain

1. Measure Length in centimeters: \_\_\_\_\_ Width in centimeters: \_\_\_\_\_
2. Place a paper towel on the triple beam balance. Carefully, mass the brain: \_\_\_\_\_
3. Complete this sentence: A sheep brain is about the size of a/an \_\_\_\_\_.
4. Pick up the preserved brain. Handle it gently – brains are expensive! A fresh brain feels much softer than this preserved one and would fall apart if you handled very much. Does this brain feel solid or hollow? \_\_\_\_\_
5. How much fat is on the brain? (none, some, or a lot) \_\_\_\_\_
6. Can you find any blood vessels? \_\_\_\_\_
7. Can you find any muscle tissues? \_\_\_\_\_
8. Decide how the brain would be positioned inside a living sheep. Compare it with the drawing on the right. Label the top, bottom, front and back on the drawing.
9. How many major sections of the brain do you see on the diagram to the right? \_\_\_\_ Can you locate these sections on your sheep brain? \_\_\_\_

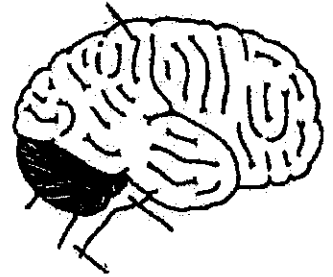


### PART B: Brain Parts

1. The cerebrum is the largest part of the brain. It is divided into two halves. Complete the following sentence: The cerebrum looks like \_\_\_\_\_.
2. Compare the two halves of the cerebrum. Are they (circle one)  
EXACTLY ALIKE      VERY SIMILAR      SOMEWHAT ALIKE      DIFFERENT
3. Behind the cerebrum is the cerebellum which is about the size of a/an \_\_\_\_\_.
4. Other than size, list two ways the cerebellum looks different from the cerebrum.  
\_\_\_\_\_  
\_\_\_\_\_

5. Just below the cerebellum is the medulla. Hold the brain so you can see the medulla. The medulla narrows to form the \_\_\_\_\_.

6. Label the cerebrum, cerebellum medulla and spinal cord on the drawing to the right.



7. Look at the underside of the brain. You should see a structure that resembles a cross. These are the ends of the optic nerves just before the nerves enter the brain. What did the optic nerves connect to before they were cut? (be specific)

\_\_\_\_\_

8. You may be able to find the parts of the sheep brain that are involved with the sense of smell. Look at the underside of the brain for two protruding "flaps" of tissue toward the top. Could you locate them? \_\_\_\_\_

9. How do you think the size of your brain would compare with the size of the sheep brain? A human brain would be (larger or smaller) \_\_\_\_\_.

10. Imagine that tonight one of your parents asks you, "What does a sheep brain look like?" How would you answer?

\_\_\_\_\_  
\_\_\_\_\_

11. Return your sheep brain to its bag, clean up your station and notify your teacher.

12. Once your teacher has approved your lab station, you may remove your gloves and wash your hands.

