

# PURDUE EXTENSION NOBLE COUNTY

## 4-H DAIRY WORKSHEETS

Grade 9-D



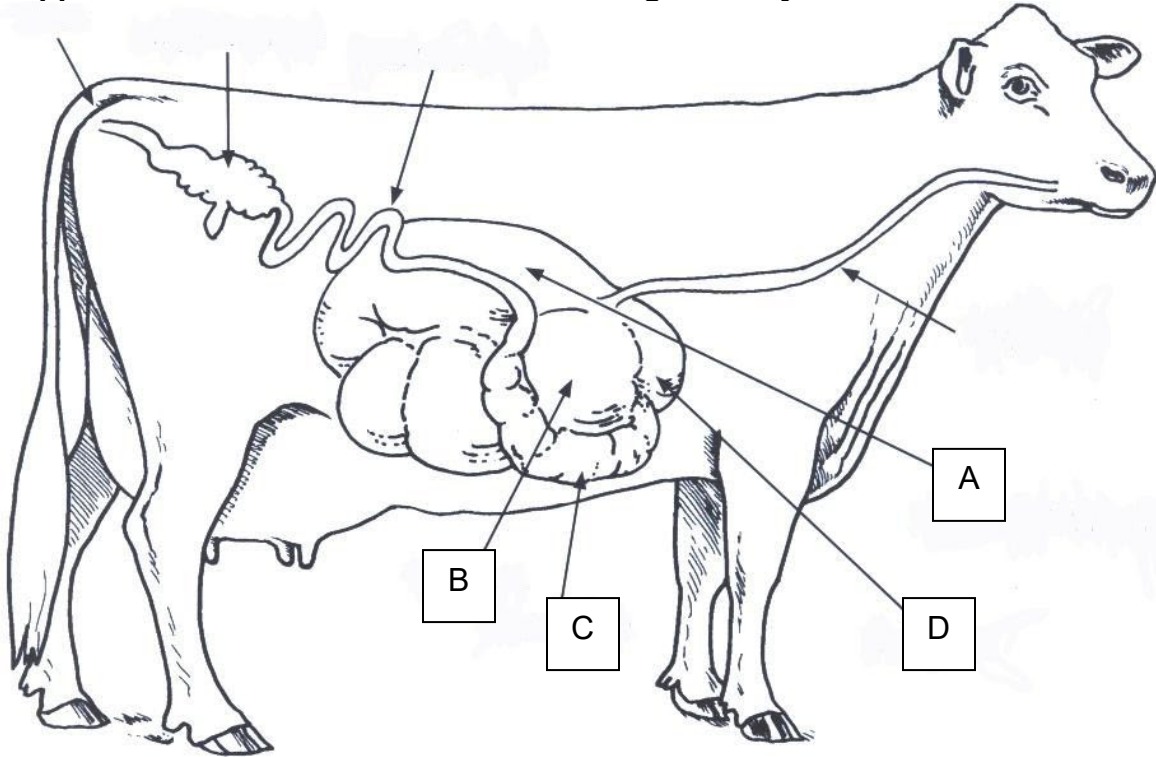
Name: \_\_\_\_\_

4-H Club: \_\_\_\_\_

Leader Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**The Ruminant Digestive System Identification:** Please write an accurate statement as to what happens in the identified location of the digestive system.

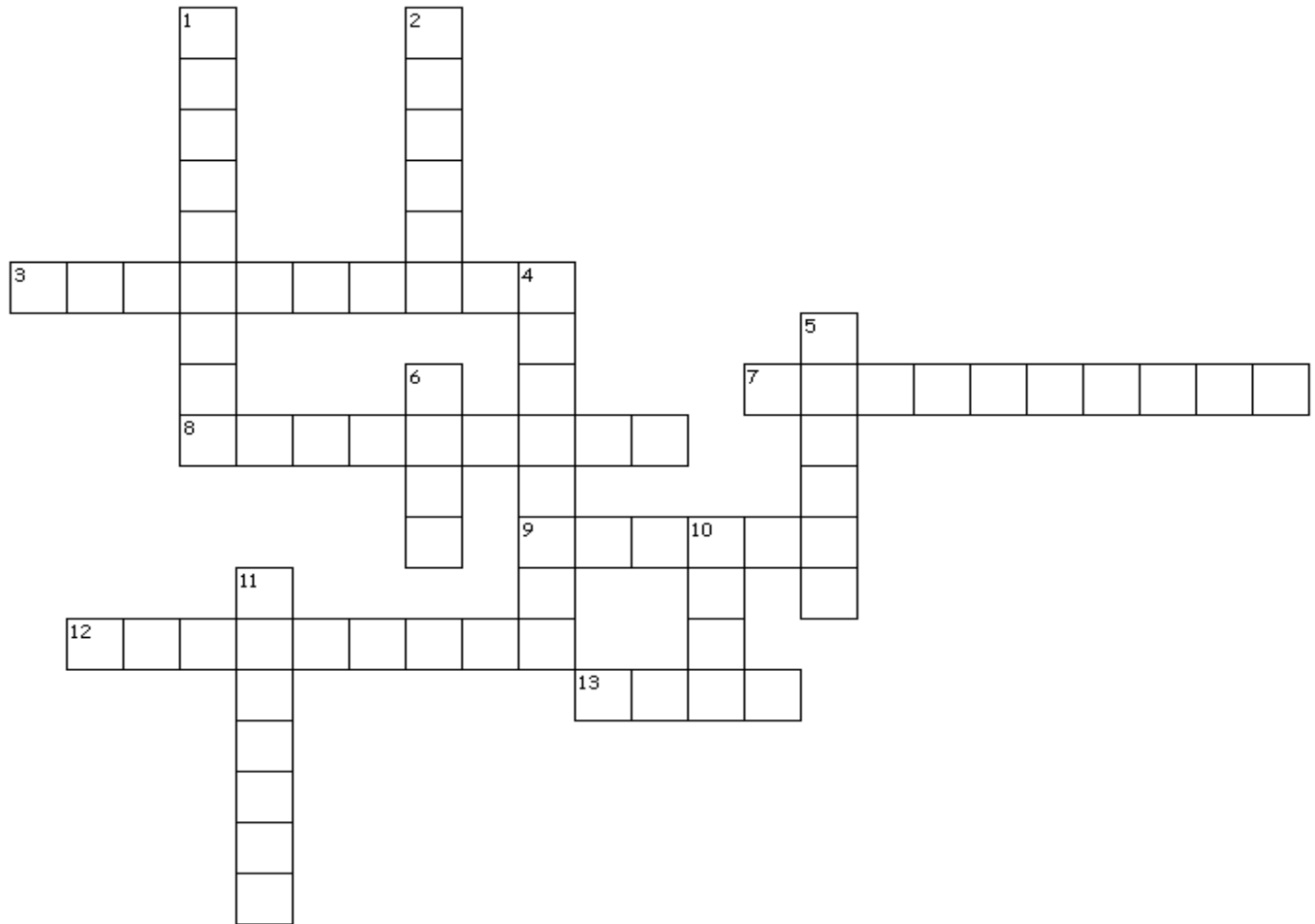


- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_

**Nutrition:** Please write the correct answer on the line provided to complete the statement.

1. What is colostrum and why is it some important to calves at birth? \_\_\_\_\_  
\_\_\_\_\_ How much colostrum should a calf get within 8 hours of birth? \_\_\_\_\_
2. The dry period of a cow should be at least \_\_\_\_\_.
3. What is a balanced ration? \_\_\_\_\_

Answers can be found in the OSU Dairy Resource Handbook – 4-H 127R.



**Across**

- 3. strong teeth, bones, energy reactions in cells
- 7. component of many enzymatic systems
- 8. enzyme reactions in forming cartilage and bone
- 9. synthesis of thyroid hormones that control metabolism
- 12. muscular activity, osmotic pressure of body fluid
- 13. affect metabolism of carbohydrates, proteins and lipids

**Down**

- 1. normal nerve and muscle function
- 2. component of some amino acids that make protein required by rumen microbes for digestion of fiber
- 4. important in immune functions
- 5. component of enzymes that build strong bones and connective tissue
- 6. necessary for bodily functions
- 10. hemoglobin synthesis
- 11. proper skeletal structure, muscle concentration and milk production