

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

8

**The Dairy Cattle  
Industry**

**Multiple Choice**

*Choose the answer that best completes each statement or question.*

- \_\_\_\_\_ 1. Condensed milk was a major food source during the \_\_\_\_.
- A. Civil War
  - B. Revolutionary War
  - C. colonization of Jamestown
  - D. voyages to the New World
- \_\_\_\_\_ 2. What year did the history of dairying begin in the United States?
- A. 1611
  - B. 1776
  - C. 1856
  - D. 1895
- \_\_\_\_\_ 3. What year did milk pasteurization become commercially available?
- A. 1856
  - B. 1895
  - C. 1930
  - D. 1950
- \_\_\_\_\_ 4. Which technology was introduced to the dairy industry in the 1970s?
- A. embryo transfers
  - B. homogenization
  - C. artificial insemination
  - D. recombinant bovine growth hormone
- \_\_\_\_\_ 5. What is the purpose of using recombinant bovine growth hormone?
- A. increase growth
  - B. increase calf size
  - C. increase milk production
  - D. increase muscle-to-fat ratio

- \_\_\_\_\_ 6. Which dairy breed is the most popular breed of dairy cow in the United States?
- A. Jersey
  - B. Holstein
  - C. Guernsey
  - D. Milking Shorthorn
- \_\_\_\_\_ 7. Which dairy breed is a British breed of intermediate size and a fawn color with white markings?
- A. Jersey
  - B. Holstein
  - C. Guernsey
  - D. Milking Shorthorn
- \_\_\_\_\_ 8. Which dairy breed originated in the Netherlands and is a large breed with distinctive black and white or red and white markings?
- A. Jersey
  - B. Holstein
  - C. Guernsey
  - D. Milking Shorthorn
- \_\_\_\_\_ 9. Which dairy breed is smaller than other breeds of dairy cattle and is famous for the amount of butterfat and protein in the milk?
- A. Jersey
  - B. Holstein
  - C. Guernsey
  - D. Milking Shorthorn
- \_\_\_\_\_ 10. Which dairy breed originated in Scotland and is a particularly hardy breed and is spotted red and white in color?
- A. Jersey
  - B. Ayrshire
  - C. Brown Swiss
  - D. Milking Shorthorn
- \_\_\_\_\_ 11. Which dairy breed is solid brown in color, adapts well to all types of weather, and is noted for good udders, feet, and legs?
- A. Jersey
  - B. Ayrshire
  - C. Brown Swiss
  - D. Milking Shorthorn

- \_\_\_\_\_ 12. Which dairy breed originated in England and is one of the oldest breeds in the world and is red, red and white, or roan in color?
- A. Jersey
  - B. Ayrshire
  - C. Brown Swiss
  - D. Milking Shorthorn
- \_\_\_\_\_ 13. Which dairy breed has milk that is noted for its golden color, which occurs because the milk is high in beta-carotene?
- A. Jersey
  - B. Holstein
  - C. Guernsey
  - D. Milking Shorthorn
- \_\_\_\_\_ 14. A cow's udder has \_\_\_\_\_.
- A. one compartment
  - B. two compartments
  - C. three compartments
  - D. four compartments
- \_\_\_\_\_ 15. Whole milk that has not been homogenized, pasteurized, or fortified is \_\_\_\_\_.
- A. raw milk
  - B. dairy milk
  - C. primary milk
  - D. secondary milk
- \_\_\_\_\_ 16. What percentage of fat is present in reduced-fat milk?
- A. 1 percent fat
  - B. 2 percent fat
  - C. 3.25 percent fat
  - D. no fat is present
- \_\_\_\_\_ 17. The portion of the milk that rises to the top is \_\_\_\_\_.
- A. whey
  - B. curds
  - C. cream
  - D. lactose

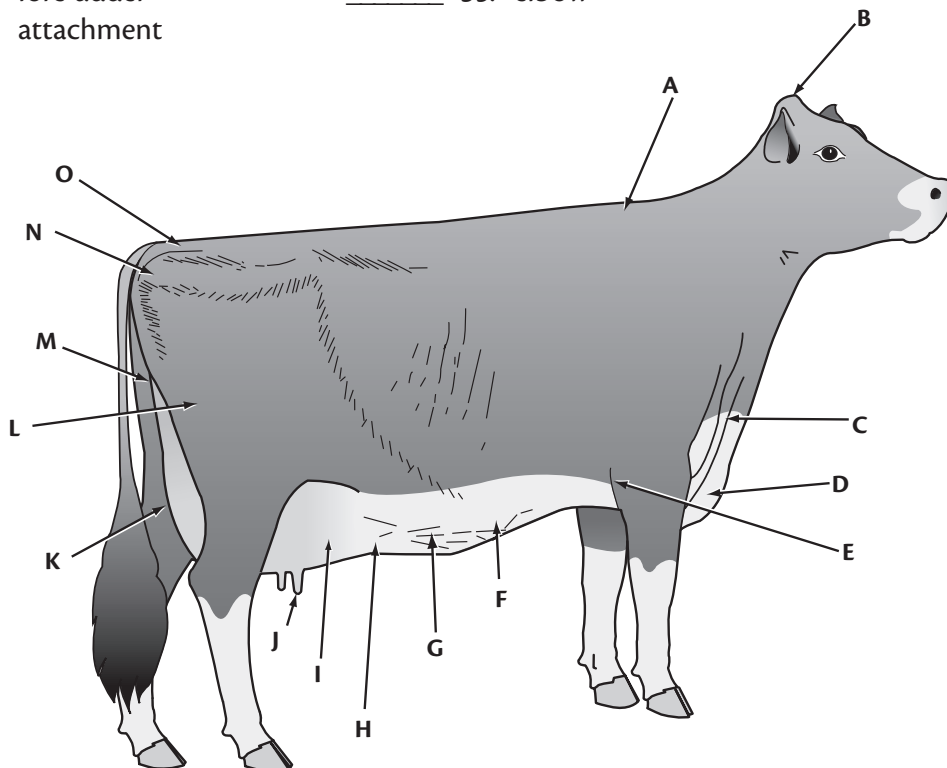
- \_\_\_\_\_ 18. Pasteurized milk that has had 60 percent of the water removed from it is \_\_\_\_\_.  
A. cream  
B. skim milk  
C. reduced-fat milk  
D. evaporated milk
- \_\_\_\_\_ 19. Which dairy product is made with a mixture of milk and cream fermented by an active culture of lactic acid-producing bacteria?  
A. cream  
B. yogurt  
C. butter  
D. ice cream
- \_\_\_\_\_ 20. Which dairy product has a minimum of 10 percent milk fat?  
A. yogurt  
B. sherbet  
C. ice milk  
D. ice cream
- \_\_\_\_\_ 21. According to the National Dairy Council, about one-third of all the milk produced in the United States is used to make \_\_\_\_\_.  
A. cheese  
B. butter  
C. yogurt  
D. ice cream
- \_\_\_\_\_ 22. Butter is made from pasteurized cream and is \_\_\_\_\_.  
A. 40 percent milk fat  
B. 60 percent milk fat  
C. 80 percent milk fat  
D. 100 percent milk fat
- \_\_\_\_\_ 23. Pasteurized milk can be kept longer and is safer to drink.  
A. True  
B. False

- \_\_\_\_\_ 24. Milk production is calculated in pounds on a yearly basis per cow, with each cow being milked on average for 360 days a year.
- A. True  
B. False
- \_\_\_\_\_ 25. If pin bones cannot be seen on a dairy cow, the cow is storing fat instead of turning the grain and forage she eats into milk.
- A. True  
B. False

### **Matching**

Identify each dairy part by matching it with its name.

- |                                 |                         |                      |
|---------------------------------|-------------------------|----------------------|
| _____ 26. brisket               | _____ 31. poll          | _____ 36. thigh      |
| _____ 27. fore udder            | _____ 32. dewlap        | _____ 37. milk wells |
| _____ 28. rear udder attachment | _____ 33. teats         | _____ 38. rear udder |
| _____ 29. withers               | _____ 34. mammary veins | _____ 39. pin bones  |
| _____ 30. fore udder attachment | _____ 35. elbow         | _____ 40. tailhead   |



## **Matching**

*Match each term with its definition.*

- A. lactation
- B. springer
- C. dry cow
- D. colostrum
- E. oxytocin

\_\_\_\_\_ 41. first milk a cow produces after calving

\_\_\_\_\_ 42. term for a cow that has stopped producing milk in preparation for birth

\_\_\_\_\_ 43. milking period

\_\_\_\_\_ 44. term for a cow that has been bred and begins to show signs of pregnancy

\_\_\_\_\_ 45. hormone that starts the milk letdown reflex

## **Short Answer**

46. What is one benefit to the dairy industry of embryo transfer? \_\_\_\_\_

\_\_\_\_\_

47. Why would robotic milking benefit the dairy industry? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_