

# Dairy Ag Mag - Vocabulary

## Using Context Clues to Determine Meaning

**Directions:** Read the paragraph. Find the word that fits best in each numbered blank.

Taken from *It's Disgusting and We Ate It!* by Gail James Solheim

What would you rather eat for lunch - a steaming piece of pizza, a bowl of bugs, a live oyster, or a fish's head?

You might be \_\_\_\_\_ (1) to learn that many people in the world would not answer "PIZZA!"

In Europe and Asia, many kids love to eat fish heads. Americans \_\_\_\_\_ (2) down tons of live oysters a day. And many Africans know that a properly cooked grasshopper has a \_\_\_\_\_ (3) crunch.

What's disgusting and what's delicious? It depends on where you live and what you're used to eating. It depends on whether the refrigerator has been invented yet and whether your mom once got sick eating tomatoes. It \_\_\_\_\_ (4) on many things - maybe on everything that ever happened up to the moment you lifted that fork.

When cows chew grass and weeds, they swallow the food into the first two of four compartments in their stomach. Then the cows burp the grass up, chew some more, and send the mush through the other two compartments to make milk. Last of all, milk comes out through the udder-which is like a giant sweat gland. How could something so awful be so good?

Cheese happens when certain germs (called bacteria) and/or chemicals act on milk. \_\_\_\_\_ (5) make your feet stink and give cheese its odor. Some of the bacteria are the same as the ones that live in your body to help digest food.

Cheese makers use an \_\_\_\_\_ (6) from animals' stomach linings to curdle milk. Then they drain off the liquid, leaving behind *curd*, the first stage in cheese's life. As the bacteria grow and spread, they give different kinds of cheese their special flavors. That's right, when you eat many types of cheese, you eat the bacteria that helped make it. Not only are these bacteria harmless, some are even good for you!

1

- A Mad
- B Angered
- C Surprised
- D Poised

2

- A Gulp
- B Nibble
- C Choke
- D Starve

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**3**

- A Horrible
- B Delightful
- C Disappointing
- D Unpleasant

**4**

- A Opens
- B Closes
- C Changes
- D Depends

**5**

- A Bacteria
- B Cows
- C Milk
- D Foods

**6**

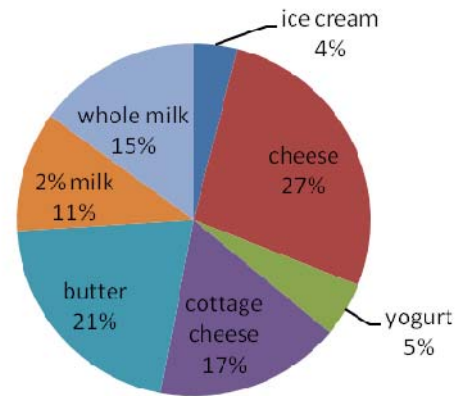
- A Preventer
- B Blockage
- C Enzyme
- D Agitator

# Diary Ag Mag - Math - Evaluating Data

**Directions:** Choose the best answer.

A dairy sells all sorts of products made from the milk produced at the dairy. In one day, the dairy makes \$743.00. The graph below shows the percentage of money earned for each product. Use the graph to answer questions 1 - 4.

**% of money earned**



**1**

Which product earned the dairy the most money?

- A yogurt
- B ice cream
- C butter
- D cheese

**2**

How much money was earned from the sale of cottage cheese?

- A \$371.50
- B \$126.31
- C \$81.73
- D cheese

**3**

How much more was earned from whole milk sales than 2% milk sales?

- A \$81.73
- B \$111.45
- C \$29.72
- D \$44.58

**4**

How much money did yogurt and ice cream make for the dairy together?

- A \$66.87
- B \$371.50
- C \$297.20
- D \$668.70

# Dairy Ag Mag - Math - Evaluating Data

**Directions:** Choose the best answer.

5

Which of the following groups of products made the most money for the dairy?

- A yogurt and cheese
- B butter and yogurt
- C whole milk and ice cream
- D yogurt, ice cream and cottage cheese

6

Which of the following groups of products made the least amount of money?

- A yogurt and cheese
- B butter and yogurt
- C whole milk and ice cream
- D yogurt, ice cream and cottage cheese

7

Which product earned \$200.61 for the dairy?

- A 2 % milk
- B cheese
- C cottage cheese
- D yogurt

8

Which product earned \$111.45 for the dairy?

- A cheese
- B ice cream
- C butter
- D whole milk

# Dairy Ag Mag - Reading Passage

Taken from *AgriScience Explorations* by Morgan, Chelewski, Lee and Wilson

Dairy cattle are selected for milk production. This ability is shown by a sleek, angular body, a strong mammary system, and strong feet and legs.

The udder is the milk-producing organ of a cow. At peak lactations, a dairy cow can produce 150 pounds of milk each day. Lactation occurs following the birth of a calf. The cow is milked for up to 305 days each year. A dry cow is one that is not producing milk. Cows are dry for two months before they calve again.

Cows are typically milked with machines. The cow udder is cleaned before and after milking. Humans never touch the milk. Milk is about 87 percent water, and a little over 4 percent each of fat, protein, and lactose sugar.

Six major breeds of dairy cows are recognized in the United States. The two most common breeds are Holstein and Jersey. The other four breeds are Guernsey, Brown Swiss, Ayrshire, and Short-horn. Each breed is different in terms of size, appearance, milk production, and percentage of milk fat.

Holsteins are black and white. The average Holstein produces the highest amount of milk by volume. Jerseys are gray, tan, or fawn colored with dark eyes. Jerseys produce milk with the highest percentage of milk fat.

Dairy cattle production focuses on cows only. Male calves and older, non-productive cows are used for beef.

A dairy specialist studies ways of improving milking production. The work involves going into milking facilities and other places where cattle are kept. They may work with dairy producers to improve their herds.

## Dairy Ag Mag - Reading Passage

**Directions:** Read each question and choose the best answer.

1

Milk is about \_\_\_\_\_ percent water.

- A 4
- B 15
- C 52
- D 87

2

Cows that are gray, tan or fawn colored with dark eyes are which breed?

- A Brown Swiss
- B Jersey
- C Holstein
- D Shorthorn

3

A cow can be milked for up to \_\_\_\_\_ days each year.

- A 365
- B 325
- C 305
- D 255

4

Dairy products are an excellent source of which mineral?

- A Carbohydrates
- B Calcium
- C Potassium
- D Copper

## Dairy Ag Mag - Reading Passage

**Directions:** Read each question and choose the best answer.

5

Cows can produce \_\_\_\_\_ pounds of milk each day.

- A 15
- B 45
- C 90
- D 150

6

The two most common dairy cows recognized in the United States are \_\_\_\_\_ and \_\_\_\_\_.

- A Holstein and Jersey
- B Brown Swiss and Ayrshire
- C Guernsey and Jersey
- D Holstein and Shorthorn

7

The job of a dairy specialist is to \_\_\_\_\_.

- A Improve milking production.
- B Improve herd production.
- C Improve general milking procedures.
- D All of the above.

### Extended Response—DAIRY

Louis Pasteur discovered the process called pasteurization. Discuss what pasteurization is, why it is important, and how it has improved dairy consumption. Be sure to include information from the Dairy Ag Mag along with your own knowledge of pasteurization.