

Name:

Class:

Date:

## Lesson 8.2: Practical Mathematics in Agriculture

### Lesson Review

Carefully study the lesson and then answer the following questions.

1. *True or False?* Almost everything in agriculture relies on some degree of math. (8.2.1)

Answer:

2. List the four basic arithmetic functions.

Answer:

3. *True or False?* A conversion factor allows you to know how many of one unit of measurement are in another unit of measurement. (8.2.1)

Answer:

4. How many pounds is a cwt? (8.2.1)

A. 10

B. 100

C. 1,000

D. 2,000

Answer:

5. *True or False?* A bushel is a unit of measurement that varies in number of pounds based on the commodity being weighed. (8.2.1)

Answer:

6. *True or False?* The units of measurement for calculating dry quantities are the same worldwide. (8.2.1)

Answer:

7. *True or False?* A ratio is the same thing as a conversion factor. (8.2.1)

Answer:

8. *True or False?* The math required in agricultural settings may include fractions. (8.2.1)

Answer:

9. Give an example of a situation where percentages may need to be calculated in agriculture. (8.2.1)

Answer:

10. Algebra is the field of mathematics in which symbols are used to represent \_\_\_\_\_. (8.2.2)

A. numbers

B. letters

C. formulas

D. unknown values

Answer:

11. Calculating drawbar horsepower is accomplished through the use of a(n) \_\_\_\_\_. (8.2.2)

A. number

B. letter

C. formula

D. unknown value

Answer:

12. Why is geometry important to agriculture? (8.2.3)

Answer:

13. Explain the difference between area and volume. (8.2.3)

Answer:

Match the type of statistical term to its definition.

- A. Mean
  - B. Median
  - C. Mode
  - D. Standard deviation
14. The average distance from the center value (8.2.4)

Answer:

15. The number occurring most often in a data set (8.2.4)

Answer:

16. The arithmetic average of the numbers in a data set (8.2.4)

Answer:

17. The number at the center of a list when the numbers are ordered from least to greatest (8.2.4)

Answer:

18. Computational mathematics is the area of math involved in developing \_\_\_\_\_. (8.2.5)

- A. new technologies
- B. machinery and equipment
- C. architectural structures
- D. computer programs

Answer:

### Critical Thinking

1. Now that you have had a chance to look at mathematics in agriculture, which area of mathematics do you think plays the largest role in the success of an agricultural business? Explain your answer. (8.2.1)

Answer: