

2020 Reno County Ag Challenge of Champions
Wednesday, July 22, 2020

Name _____ Age _____

4-H Club/FFA Chapter _____

RULES:

1. A county extension agent or FFA Instructor must certify each contestant as a Reno county student.
2. The superintendent and committee of the contest shall be in charge of the contest. They shall have the authority for interpretation of the rules.
3. No contestants will be allowed to have books or notes during the contest.
4. While the contest is in session, there shall be no communication between contestants.

GOOD LUCK!!!

2020 Ag Challenge of Champions Written Test

Multiple Choice: (Circle the letter of the correct answer)

Agricultural/Livestock Industry

1. Which of the following terms refers to adapting the behavior of animals to fit the need of humans is called:
 - a. training
 - b. imprinting
 - c. **domestication**
 - d. culling
2. The production of mohair is the main function of which goat breed?
 - a. **Angora**
 - b. Nubian
 - c. Boer
 - d. Toggenburg
3. When organisms are genetically identical they are said to be:
 - a. **clones**
 - b. relatives
 - c. genetically engineered
 - d. siblings
4. Swine are typically identified for registration by the use of:
 - a. tattoos
 - b. ear tags
 - c. **ear notches**
 - d. freeze brands
5. Which is **NOT** a function of the skeletal system?
 - a. strength
 - b. mineral storage
 - c. **blood storage**
 - d. protection

6. Which of the following wholesale cuts of beef are high-value?
- a. chuck
 - b. plate
 - c. brisket
 - d. **rib**
7. When judging beef breeding classes, the proper term for the amount of fat cover is:
- a. **condition**
 - b. finish
 - c. grease
 - d. backfat
8. A visual evaluation of the amount of muscle on a hog is best seen by looking at which view of the hog?
- a. side
 - b. **rear**
 - c. front
 - d. top
9. The most commonly used method of classifying sheep is by:
- a. carcass type
 - b. point of origin
 - c. **type of wool**
 - d. number of young produced
10. According to the USDA, the greatest expense in the production of livestock is:
- a. contract and hired labor
 - b. livestock purchased
 - c. fuel and electricity
 - d. **feed purchased**

Farm Management

11. Little pigs grow really fast. A piglet weighed four pounds at birth. He nurses his mother for 21 days and gains 16 pounds. What does the piglet weigh at weaning time?
- a. 7
 - b. 20**
 - c. 25
 - d. 37
12. The Belted Galloway breed is known for their pretty white belt and excellent meat quality. A heifer weighs 475 pounds today. She will need to weigh 1,000 pounds before being ready for market. How many pounds does this heifer need to gain before going to market?
- a. 474 pounds
 - b. 525 pounds**
 - c. 555 pounds
 - d. 1,475 pounds
13. Daisy is a big Holstein cow. She is milked twice a day with all of the other dairy cows. At her first milking, she gives 40 pounds of milk and she does that again at her evening milking. There are 19 other cows in Farmer Fred's dairy herd, which all average 40 pounds of milk per milking. How much milk do all of the cows produce during the morning milking?
- a. 80 pounds
 - b. 600 pounds
 - c. 800 pounds**
 - d. 1,000 pounds
14. There are four wether goats weighing 81 pounds each. These goats are being used for a grading demonstration. One of the goats is a grade #1 and the other three are all grade #2. What is the total weight of these wethers?
- a. 81 pounds
 - b. 162 pounds
 - c. 243 pounds
 - d. 324 pounds**

15. Dee Dee's daughter has a lamb. This lamb acts silly sometimes when Farmer Dee Dee lets her run in the yard, so they named her Goofy. Goofy's mom has had triplets (3), twins (2) and twins (2). How many lambs has Goofy's mom raised?
- a. 4 lambs
 - b. 5 lambs
 - c. **7 lambs**
 - d. 12 lambs
16. An older sow raised 11 pigs. The litter of pigs weighed 35 pounds at birth. The pigs weighed 158 pounds at the weaning age of 21 days. How many pounds did the litter of pigs gain while nursing their mother?
- a. 112
 - b. **123**
 - c. 142
 - d. 213
17. A black-white faced feeder calf is eating eight pounds of feed and 24 pounds of grass to gain four pounds each day. How many pounds will this calf gain in a week?
- a. 20 pounds
 - b. 24 pounds
 - c. **28 pounds**
 - d. 32 pounds
18. A dairy cow produces 75 pounds of milk a day or nearly 9 gallons per day. Farmer Wendell receive 12 cents a pound or about \$1.03 for a gallon of milk picked up at the farm. The retail price is 30 cents a pound or \$2.60 a gallon. What percent of the retail price did Farmer Wendell receive?
- a. 12%
 - b. 16%
 - c. 30%
 - d. **40%**
19. Farmer Chris was very successful. One of his Boer does produced seven kids in three kiddings. The seven kids sold for a total of \$6,650.00. What was the average value of each kid?
- a. \$316.67
 - b. \$665.00
 - c. **\$950.00**
 - d. \$2,216.67

20. Parasite prevention is costly on farmers, but is a necessity to keep healthy stock. George, the sheep farmer, spends \$2,600 on parasite prevention each year. The medication is \$13 per lamb. George is giving parasite medication to how many lambs?
- a. 7 lambs
 - b. **200 lambs**
 - c. 216 lambs
 - d. cannot be determined

Farm Equipment

21. Which of the following is **NOT** a purpose for a tractor?
- a. a remote power source
 - b. a machine to pull/carry another machine
 - c. **a way to transport coworkers and friends**
 - d. a transporter of materials
22. When refueling your tractor, you should always:
- a. shut off the engine
 - b. let the engine cool off
 - c. refuel outdoors or in areas with good ventilation
 - d. **all of the above**
23. When driving tractors and equipment on roads, what should you do to ensure your safety?
- a. display the slow-moving vehicle sign
 - b. use escort vehicles
 - c. drive with the rollover protection structure down so you can jump away in the event of a crash
 - d. **both a and b**
24. What does PTO stand for?
- a. Pizza Take Off
 - b. Power Turn On
 - c. **Power Take Off**
 - d. Power Turn Off

25. Combines are used to do what?

- a. **cut and thresh crops**
- b. swath and windrow crops
- c. move crops to market
- d. get other machinery out of the field

26. What farm equipment is used to cultivate soil?

- a. baler
- b. combine
- c. **disk**
- d. rake

27. What type of engines do most farm tractors usually have?

- a. **diesel**
- b. electric
- c. gasoline
- d. steam

28. A _____ is used to harvest crops such as grass and/or alfalfa.

- a. **baler**
- b. combine
- c. tractor
- d. truck

29. A _____ is a machine that cuts and windrows hay in one pass over a field.

- a. combine
- b. cotton picker
- c. **swather**
- d. tractor

30. What is the most common vehicle used in agriculture?

- a. truck
- b. **tractor**
- c. swather
- d. combine

General Agriculture

31. Which industry ranks first in the nation as an employer?

- a. **agriculture**
- b. manufacturing
- c. retail
- d. technology

32. Which fabric contains a farm product?

- a. nylon
- b. **cotton**
- c. polyester
- d. acrylic

33. Only _____ out of every 100 Americans work on a farm.

- a. **2**
- b. 10
- c. 15
- d. 20

34. A beef/dairy cow has a _____-compartment stomach that enables it to digest and convert all types of vegetation into energy.

- a. 1
- b. 2
- c. 3
- d. **4**

35. Which of these plants is **NOT** a grain crop?

- a. corn
- b. oats
- c. **soybeans**
- d. wheat

36. The largest segment of U.S. agriculture is the _____ industry.

- a. **beef cattle**
- b. dairy cattle
- c. soybean
- d. wheat

37. One farmer produces enough food for about how many people?

- a. 10
- b. 25
- c. 90
- d. **165**
- e. 300

38. Milk is an important source of which nutrient?

- a. vitamin A
- b. vitamin C
- c. **calcium**
- d. carbohydrates
- e. iron

39. Which of the following has allowed farmers to increase production during the past 100 years?

- a. larger farms
- b. computers
- c. farm machinery such as tractors
- d. pesticides
- e. **all of the above**

40. An acre of land is roughly the size of a:

- a. a basketball court
- b. a city block
- c. **a football field**
- d. a swimming pool