Name KEY

Senior Livestock Breeds Identification

INSTRUCTIONS: For each picture, use the columns on the right to choose the letter that indicates your answer for each livestock breed and for the important characteristics/traits. **You must bubble in the scantron sheet corresponding with Breed Identification and Breed Description**. You may fill this sheet out and keep to go over with your coaches at the end of the contest. Each question is worth 3 points for each part of the question. (60 points total for Seniors).

Breed Name	Important Traits				
1. <u>T</u>	N				
2. <u>P</u>	G	Breed Names - to	<mark>be used in answer col</mark>	umn 1 by <u>Seniors</u>	
3. F	A	Beef Breeds A. Charolais B. Chianina	<u>Goat Breeds</u> G. Boer H. Nubian	Sheep Breeds K. Hampshire L. Oxford	Swine Breeds Q. Berkshire R. Poland China
4. S	<u> </u>	C. Red Angus D. Red Poll E. Brahman	I. Alpine J. Saanen	M. Lincoln N. Southdown O. White Face Cross	S. YorkshireT. HerefordU. Chester White
5. <u>C</u>	<u> </u>	F. Santa Gertrudis		P. Tunis	V. <u>Landrace</u>
6. Q	L				
7. <u>A</u>	D				
8. <u>N</u>	<u> </u>				
9. <u>G</u>	E				
10. <u>L</u>	J				

Important Characteristics/Traits Origins of Breeds - to be used in answer column 2 by Seniors

Beef Cattle Characteristics/Traits

- A. Heat tolerance, insect and parasite resistance, mothering ability, and milk supply; Origin Developed in the U.S. on King Ranch
- B. Known for excellent meat quality, calving ease, and hardy; originated in the British Isles
- C. Growth rate, muscling, early puberty, calving ease, and mothering ability
- D. Terminal sire, French breed known for muscle growth efficiency

Goats Characteristics/Traits

- E. Known for carcass qualities; its breed name is the Dutch word "Farmer"; originated in Africa
- F. High butterfat content, extended breeding season, best suited for hot conditions, and multipurpose use (milk, meat & hide); originated in England

Sheep Characteristics/Traits

- G. Originated from Northern Africa, known for meat quality, mothering instincts, and ample milk production
- H. Wool production, muscling, and late fattening; Origin Kent, England.
- I. English breed known for carcass conformation and early maturity rates
- J. English breen known for carcass conformation, heavy fleece, and lambing percentage

Swine Characteristics/Traits

- K. Aggressive breeders and mothering ability; Origin England.
- L. Conception rate and meat quality (intramuscular fat); Origin England.
- M. Prolificacy (litter size), milking ability, mothering ability; Origin England.
- N. Carcass quality (intramuscular fat); Origin U.S. (Iowa/Nebraska).























16. **S**

17. <u>N</u>

18. **O**

19. <mark>J</mark>

20. **D**

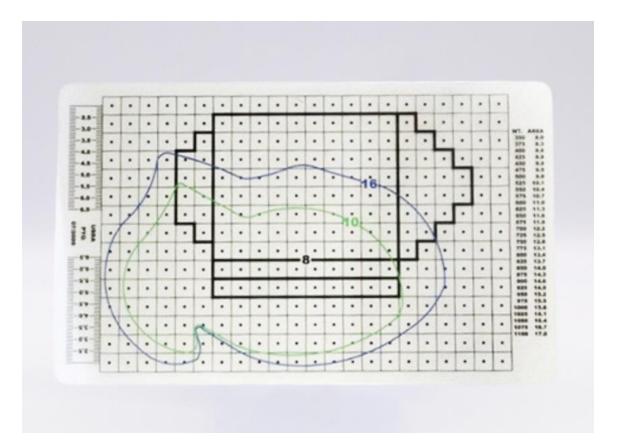
Senior Livestock and Meat Equipment Identification – 2023

<u>Equipment</u> <u>Name</u>	INSTRUCTIONS: For each picture, use the column on the right to choose the letter that indicates your answer for each piece of equipment. You must bubble in the scantron sheet corresponding with Equipment Identification. You may fill this sheet out and keep to go over with your coaches at the
1. <u>A</u>	end of the contest. Each question is worth 3 points (60 points total for Seniors).
2. B	
	Equipment Names – to be used in answer column 1 by <u>Seniors</u>
3. <u>I</u>	Livestock/Meat Equipment
4. Q	A. Balling gun
4. <u>Q</u>	B. Bone dust scraper
5. G	C. Curry comb
J. <u> </u>	D. Ear tag pliers
6. F	E. Elastrator
	F. Emasculator
7. <u>H</u>	G. Ewe prolapse retainer
	H. Fence post driver
8. <u>M</u>	I. Loin eye area grid
0	J. Meat grinder plate
9. <u>P</u>	K. Meat tenderizer
10. C	L. Needle teeth nippers
	M. Obstetrical chain
11. L	N. Paint branding irons
	O. Ralgro implant cartridge
12. R	P. Rasp
	Q. Rumen magnet
13. <u>T</u>	R. Sharpening steel
14. E	S. Slap tattoo
14. <u>Ľ</u>	-
15. <u>K</u>	T. Vacuum sausage stuffer















































Name

KEY

Senior Retail Meat Cut Identification - 2023

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each retail meat cut. You must bubble in the scantron sheet corresponding with Species, Primal Cut, and both digits of the Retail cut. You may fill this sheet out and keep to go over with your coaches at the end of the contest. Seniors provide answers for retail cut name, species of cut, and wholesale cut of origin. Each question is worth 2 points each (60 points total for Seniors).

ID #	Species	Primal Cut	Retail Cut First Digit	Retail Cut Second Digit
1	Р	K	8	6
2	В	С	3	1
3	Р	N	8	2
4	В	D	4	4
5	Р	М	7	3
6	L	F	5	4
7	Р	L	8	3
8	В	A	1	1
9	L	Н	6	0
10	В	E	0	1

Primal Cut of Origin - to be used in answer column 2 by Seniors

F. Leg

Beef Wholesale Cuts

- A. Chuck
- B. Loin C. Rib
- D. Round
- E. Variety Cut

Lamb Wholesale Cuts G. Loin H. Rack I. Shoulder

J. Variety cut

Pork Wholesale Cuts K. Belly (Side, Bacon) L. Boston Butt M.Loin N. Picnic Shoulder

(You may use the letter more than once!!)							
B. Beef	L. Lamb P.	Pork					
Retail Names – to be used in	answer column 3 by <u>Seniors</u>						
Beef Retail Meat Cuts							
01. Beef for stew	17. Sirloin steak, shell	32. Bottom round roast					
02. Brisket, point half	18. Sirloin steak, boneless	33. Bottom round steak					
03. Brisket, whole	19. Tenderloin steak	34. Eye round roast					
04. Arm roast	20. Porterhouse steak	35. Eye round steak					
05. Arm roast, boneless	21. T-bone steak	36. Heel of round roast					
06. Arm steak	22. Top loin steak	37. Rump roast, boneless					
07. Arm steak, boneless	23. Top loin steak, boneless	38. Round steak					
08. Blade roast	24. Short ribs	39. Round steak, boneless					
09. Blade steak	25. Skirt steak	40. Tip roast					
10. 7-bone roast	26. Rib roast, large end	41. Tip roast, cap off					
11. 7-bone steak	27. Rib roast, small end	42. Tip steak					
12. Flank steak	28. Rib steak, small end	43. Tip steak, cap off					
Sirloin steak, flat bone	29. Rib steak, small end, boneless	44. Top round roast					
14. Sirloin steak, pin bone	30. Ribeye roast	45. Top round steak					
15. Sirloin steak, round bone	31. Ribeye steak	46. Cross cuts					
16. Sirloin steak, wedge bone		47. Cross cuts, boneless 48. Liver					
Lamb Retail Meat Cuts							
49. Breast	55. Sirloin chop	61. Rib roast					
50. Breast riblets	56. Leg sirloin half	62. Rib roast, boneless					
51. American style roast	57. Loin chop	63. Shanks					
52. Leg Center slice	58. Loin double chop	64. Blade chop					
53. French style roast	59. Loin roast	65. Neck slice					
54. Leg shank half	60. Rib chop	66. Liver					
Pork Retail Meat Cuts							
67. Fresh ham center slice	74. Center rib roast	81. Arm roast					
68. Fresh ham rump portion	75. Center loin roast	82. Arm steak					
69. Fresh ham shank portion	76. Loin chop	83. Blade Boston roast					
70. Fresh side pork	77. Rib chop	84. Sliced bacon					
71. Blade chop	78. Sirloin chop	85. Smoked jowl					
72. Blade roast73. Butterfly chop	79. Top loin chop80. Arm picnic roast	86. Spare Ribs					

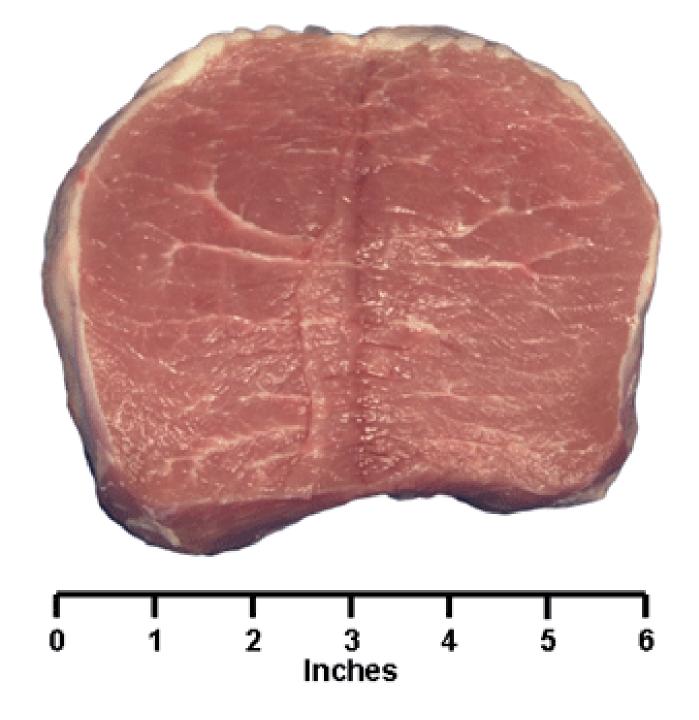


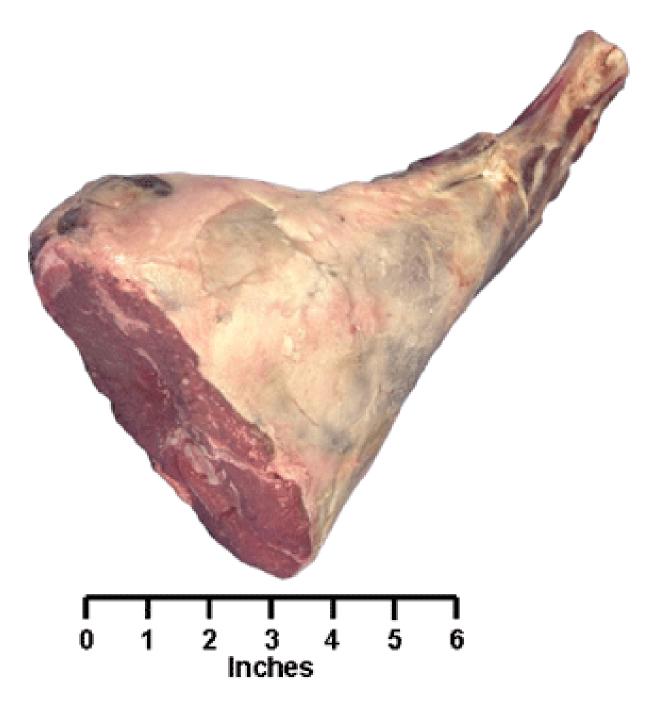


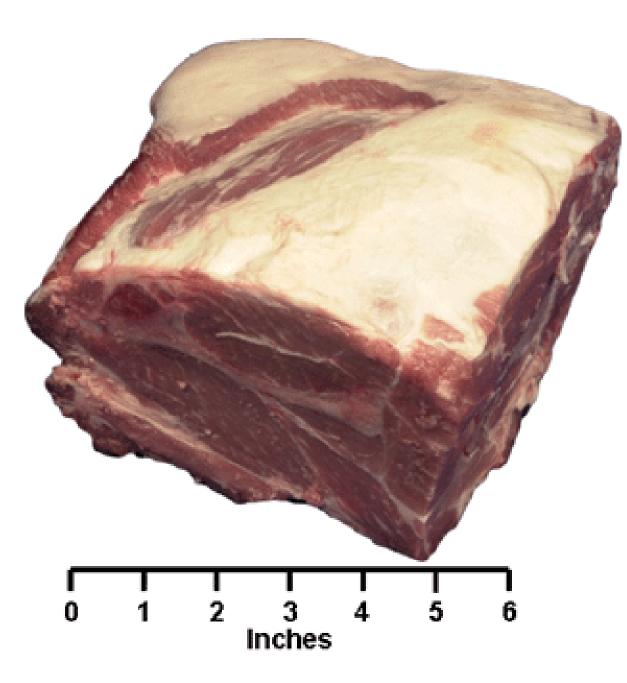






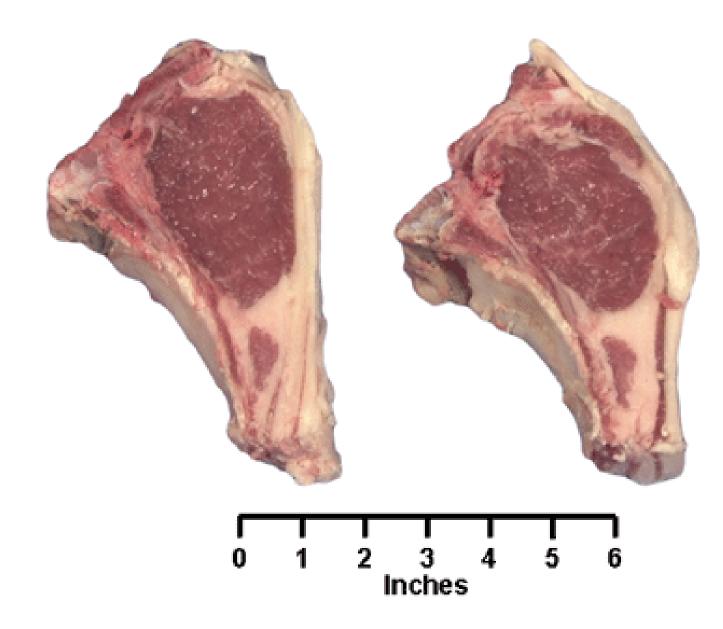




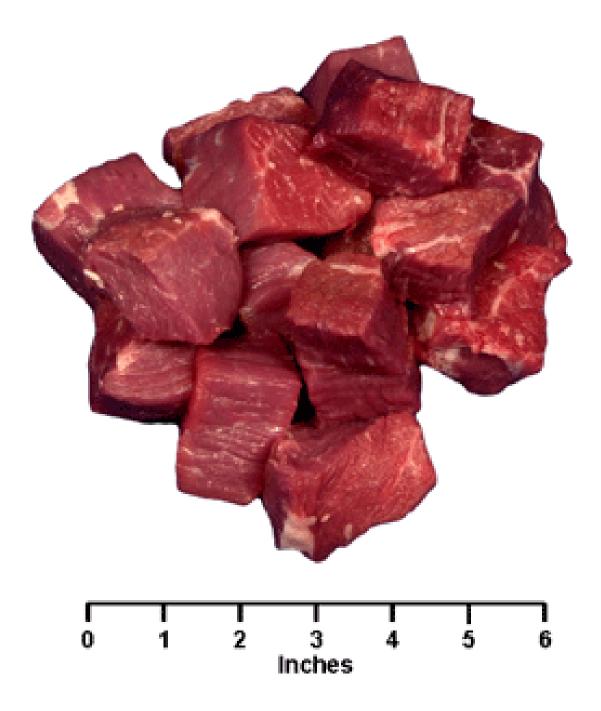












Name KEY

Senior Livestock Feed Identification – 2023

INSTRUCTIONS: For each picture, use the columns on the right to choose the letter that indicates your answer for each feedstuff name and for the important characteristics/use. **You must bubble in the scantron sheet corresponding with feedstuff name and characteristic/uses**. You may fill this sheet out and keep to go over with your coaches at the end of the contest. Each question is worth 3 points for each part of the question. (60 points total for Seniors).

Feedstuff Name	Characteristic/Uses	Feed Names – to be used in answer column 1 by <u>Seniors</u>
1. <u>0</u>	G	A. Barley (whole) B. Blood Meal
2. <u>K</u>	D	C. Copper Sulfate D. Cottonseed Meal E. Cracked Shelled Corn
3. <u>B</u>	<u> </u>	 F. Crimped Oats G. Dehydrated Alfalfa Meal H. Dicalcium Phosphate I. Dried Molasses
4. F	<u> </u>	J. Feather Meal K. Ground Ear Corn L. Ground Limestone
5. <u>R</u>	K	 M. Soybean Hulls N. Soybeans (whole) O. Trace Mineralized Salt P. Urea
6. P	Н	Q. Vegetable Oil R. Vitamin Premix
7. <u>S</u>	<u>N</u>	S. Wheat Middlings T. White Salt
8. <u>G</u>	L	
9. <u>H</u>	J	
10. <u>M</u>	<u> </u>	

Important Characteristics/Uses of Feedstuffs - to be used in answer column 2 by Seniors

- A. A dried carbohydrate that is highly palatable and readily available source of energy. Most commonly added to ruminant and horse diets.
- B. Often referred to as bluestone; source of copper for mineral supplements.
- C. A grain that has been passed between a set of corrugated rollers to produce a flake. Often increases the surface area and improves energy utilization
- D. A carbohydrate that has been ground through a hammer mill or burr mill. Reduces particle size which increases the surface area and improves starch digestibility. Due to high fiber content it is fed primarily to ruminant animals.
- E. Comprised of almost pure sodium chloride and is the most common mineral supplement added to livestock, horse, and poultry feeds.
- F. A carbohydrate that has been processed through a hammer mill. Coarser grinds are preferred for ruminants and finer grinds are generally preferred for monogastrics. 8.5% crude protein.
- G. A mineral that is commonly fed free choice to grazing animal in either loose or block form
- H. A protein that should only be fed to ruminants. Often referred to as non-protein nitrogen. Can be toxic if fed at excessive levels.
- I. A by-product of the meat packing industry. A good source of ruminant bypass protein.
- J. A mineral that is obtained by processing rock phosphates into phosphoric acid, which is then reacted with calcium carbonate. Used in livestock, horse and poultry feeds.
- K. May contain both fat soluble and water soluble vitamins. Various feedstuffs are used as carriers in this.
- L. Excellent feedstuff for horses and ruminants because of it being high in protein, minerals, and vitamins. Often pelleted prior to feeding.
- M. By-product of the soy oil and meal manufacturing industry. A palatable source of digestible fiber for ruminants and horses.
- N. By-product of the flour milling industry. A palatable feedstuff rich in niacin, vitamin B1, phosphorus, and iron.

County_____

Senior Skillathon Test – 2023

Circle your answer on this sheet and <u>bubble your answers in the Exam section of your scantron</u> <u>sheet</u>. Only use a number 2 pencil on your scantron sheet. You can keep this sheet for reference to review with your coach after the contest (Each question is worth 2 points each for a total of 60 points).

- 1. Crossbreeding can increase what?
 - a. Heritability
 - b. Productivity
 - c. Longevity
 - d. Multiples
- 2. What is an inflammation of the udder called?
 - a. Metritis
 - b. Hypomagnesia
 - <mark>c. Mastitis</mark>
 - d. Anestrus
- 3. What is enterotoximia?
 - a. Overeating
 - b. Bloat
 - c. Gastritis Acid
 - d. Lactose Intolerance
- 4. What are birth dates, adjusted weaning weights and adjusted yearling weights called in a livestock judging contest?
 - a. Superfluous Data
 - b. Performance Indexes
 - c. Performance Data
 - d. Sire Summaries
- 5. Flies, grubs, lice and internal worms are all common what of cattle?
 - a. Feedstuffs
 - <mark>b. Parasites</mark>
 - c. Protein Sources
 - d. Hardware Diseases

- 6. In a class of 4 animals in a judging contest you place the class 1-2-3-4. The official placing is 2-1-4-3 with cuts of 3-4-2. What is your score?
 - a. 41
 - <mark>b. 45</mark>
 - c. 91
 - d. 95
- 7. At what temperature should baby pigs be kept at for the first 10 days of life?
 - a. 68-73°F
 - b. 77-82°F
 - <mark>c. 85-90°F</mark>
 - d. 98-102°F
- 8. What nutritional disease may result if zinc is not included in the swine diet?
 - a. Paratuberculosis
 - b. Parakeratosis
 - c. Porcine Leukemia
 - d. Parturient Paresi
- 9. How soon after birth should a baby pig's tail be clipped?
 - a. Within 24 hours
 - b. 1 week
 - c. 3 weeks
 - d. 1 month
- 10. What percent protein does corn contain?
 - a. 2-3.5 %
 - b. 4.5-5 %
 - c. 6-7.5 %
 - <mark>d. 8.5 -9 %</mark>
- 11. What two breeds were originally crossed to make the Suffolk breed?
 - a. Southdown and Montadale
 - b. Norfolk and Corriedale
 - c. Norfolk and Southdown
 - d. Southdown and Hampshire
- 12. A 135 lbs. lamb with a 50% dressing percentage will have a hot carcass weight of?
 - a. 35 lbs.
 - b. 50 lbs.
 - c. 67.5 lbs.
 - d. 135 lbs.

- 13. What is the name given to ewes who are synchronized to carry donor embryos in embryo transfer?
 - a. Donor Ewe
 - b. Recipient Ewe
 - c. Transfer Ewe
 - d. Cull Ewe
- 14. To safely move cattle it is important for the handler to know where the distance is from an animal that a handler must maintain for the animal to feel comfortable. What is this area called?

a. Flight zone

- b. Thermal Neutral Zone
- c. Flight Risk
- d. Buffer Zone
- 15. When thawing semen, what temperature should the water bath be?
 - a. 110°F
 - b. 98° F
 - <mark>c. 95°F</mark>
 - d. 88°F

16. List the beef quality grades in order of decreasing value.

- a. Select, Prime, Choice, Commercial, Standard, Utility, Cutter, Canner
- b. Standard, Choice, Select, Prime, Utility, Commercial, Cutter, Canner
- c. Prime, Choice, Standard, Select, Commercial, Utility, Canner, Cutter
- d. Prime, Choice, Select, Standard, Commercial, Utility, Cutter, Canner
- 17. Which compartment in the ruminant digestive tract has the largest capacity and is known as the fermentation vat?
 - a. Abomasum
 - b. Omasum
 - <mark>c. Rumen</mark>
 - d. Reticulum
- 18. Which of the following is an example of a legume?
 - <mark>a. Alfalfa</mark>
 - b. Corn
 - c. Rye
 - d. Bermuda Grass

- 19. What are the beneficial bugs found in the rumen?
 - a. Viruses and Protozoa
 - b. Fungi and Bacteria
 - c. Bacteria and Parasites
 - d. Protozoa and Bacteria
- 20. Which is true in regard to preventing disease spread?
 - a. Observe and handle sick animals last
 - b. Use separate clothes and shoes for handling sick animals
 - c. Always wash hands after working with animals
 - d. All of the above
- 21. In which organ do embryos grow and develop in sows?
 - a. Ovaries
 - b. Cervix
 - c. Oviducts
 - d. Uterine Horns
- 22. In the swine carcass, where is loin eye measured to determine muscling?
 - a. 8th
 - b. 9th
 - c. 10th
 - $d. \quad 12^{th}$
- 23. What is the term that means an infectious disease can be transmitted between animals and humans?

a. Zoonotic

- b. Dermatitis
- c. Ruminant
- d. Monogastric
- 24. Which of the following amino acid is the first limiting in swine diets? of the followingis an amino acid
 - a. Tryptophan (this is an amino acid too. Comment possible new question could be which amino acid is the first limiting in swine diets? The answer would be lysine
 - <mark>b. Lysine</mark>
 - c. Septine
 - d. Lutalyse
- 25. Roasted soybeans are a popular feed source as they supply rumen undegradable protein and what else?
 - a. Vitamin D
 - b. Calcium
 - <mark>c. Fat</mark>

- d. Magnesium
- 26. Never use a needle larger than what gauge to inject a synchronization hormone?
 - a. 14 gauge
 - b. 15 gauge
 - <mark>c. 18 gauge</mark>
 - d. 20 gauge
- 27. Name the fat soluble vitamin that is synthesized in the rumen?
 - a. Vitamin A
 - b. Riboflavin
 - <mark>c. Vitamin K</mark>
 - d. Vitamin C
- 28. What structures carry blood from the body back to the heart?
 - a. Arteries
 - <mark>b. Veins</mark>
 - c. Aorta
 - d. Thoracic
- 29. What metabolic disease is a result of an imbalance in magnesium?
 - a. Grass Tetany
 - b. Milk Fever
 - c. Displaced Abomasum
 - d. Coccidiosis
- 30. Why are anthelmintic products used?
 - a. To keep your animals, cool in the summer
 - b. To deworm your animals
 - c. To provide disease protection from fungi
 - d. To prevent warts from developing

Senior Team Quality Assurance – 2023

During this station your team must complete 5 different activities. You may complete the activities in the order you and your team prefer. Please make sure contest official can watch you complete the activity before starting. This is a real time grading based on performance of each activity. Each activity is worth up to 40 points each for a total of 200 points.

- 1. Draw up the correct dosage for the scenario below. In order to receive full points team must draw exact amount based on label direction.
- 200 lb. calves have developed bovine keratoconjunctivitis. Please treat with the correct medication provided. Label is printed off beside the vial. What is the common name for bovine keratoconjunctivitis?
- 2. Show where you would administer the medication on the stuffed cow provided. Do not actually inject the medication. Explain to the contest official the steps you would take.
- 3. Using the example needles provided explain which size needle you would use and why you would use that needle for this medication.
- 4. Using the oranges provided inject the medication into the orange in the way it should be administered to the calf.
- 5. If you were going to send these animals to be harvested, when would be the first date you would be allowed to sell them. Using today's date as your administration date.

Activity	/ #1	points	awarded:		

Activity # 2 points awarded:	
receivity in 2 points awaraca.	

Activity # 3 points awarded: _____

Activity # 4 points awarded: _____

Activity # 5	points	awarded:	
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Total Points awarded: _____

