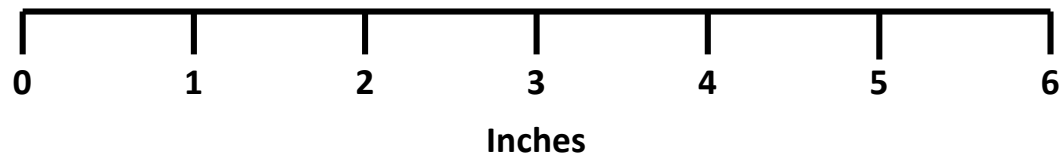
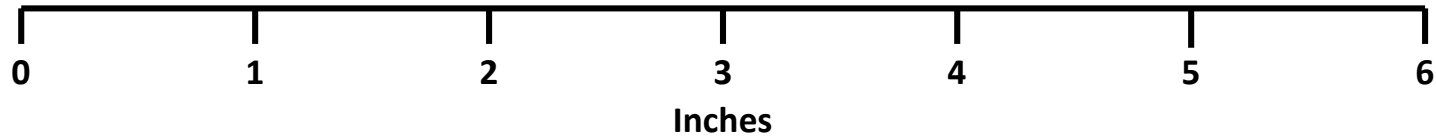


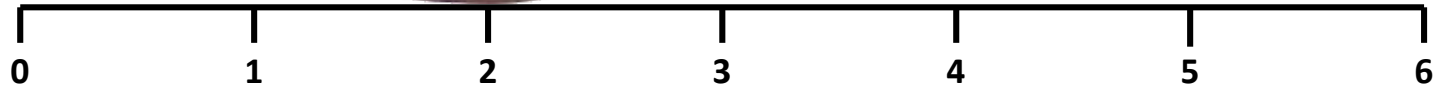
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2



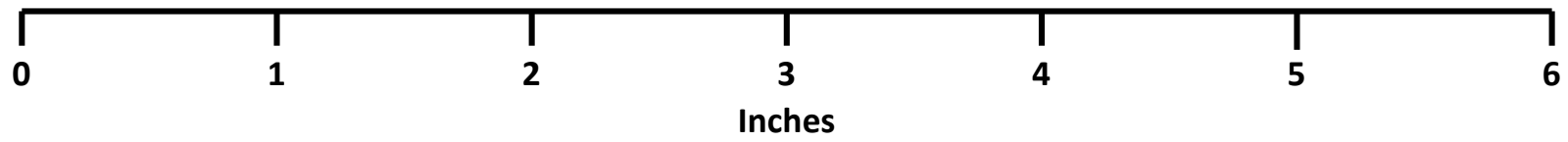
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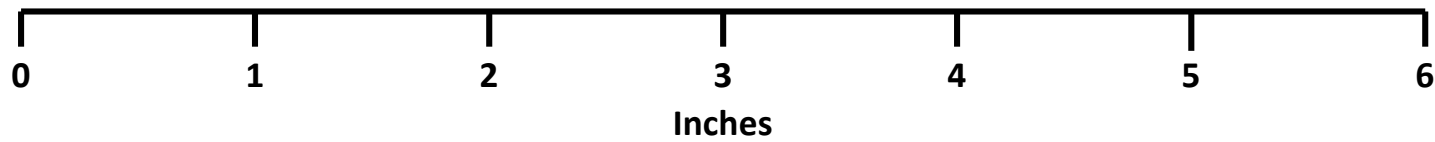
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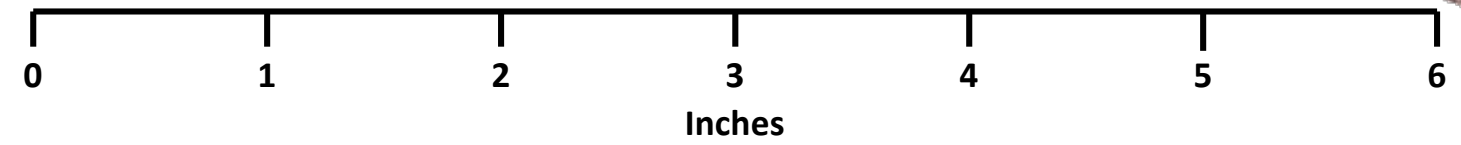
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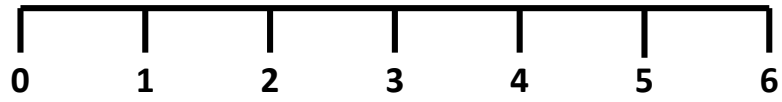
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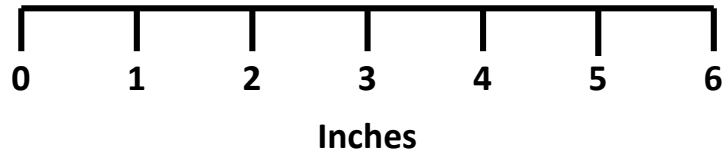


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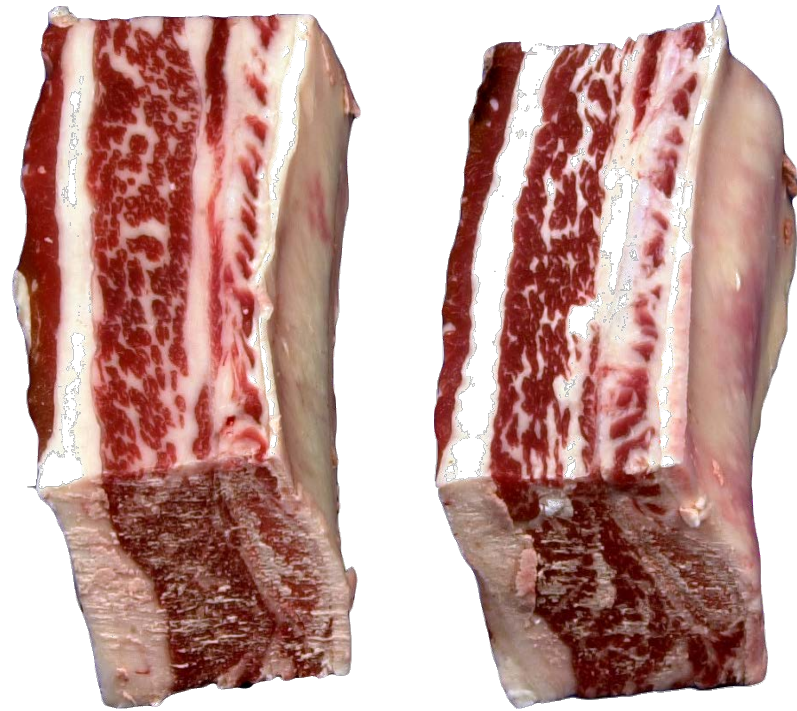


Inches

8

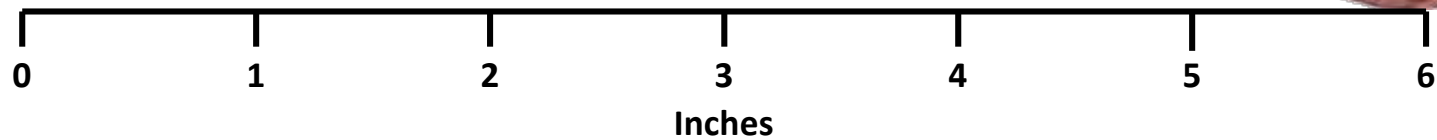


9



0 1 2 3 4 5 6
Inches

10



Name _____ Contestant # _____ County _____

Senior Retail Meat Cut Identification – 2019

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. Use capital letters and write neatly. **Seniors** provide answers for retail cut name, species of cut, and wholesale cut of origin. Each question is worth 5 points (150 points total for Seniors).

	<u>Retail Cut Name</u>	<u>Species of Cut</u>	<u>Wholesale Cut of Origin</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

Retail Names – to be used in answer column 1 by Seniors

Beef Retail Meat Cuts

- | | | |
|-------------------------------|------------------------------------|---------------------------|
| 1. Beef for stew | 17. Sirloin steak, shell | 32. Bottom round roast |
| 2. Brisket, point half | 18. Sirloin steak, boneless | 33. Bottom round steak |
| 3. Brisket, whole | 19. Tenderloin steak | 34. Eye round roast |
| 4. Arm roast | 20. Porterhouse steak | 35. Eye round steak |
| 5. Arm roast, boneless | 21. T-bone steak | 36. Heel of round roast |
| 6. Arm steak | 22. Top loin steak | 37. Rump roast, boneless |
| 7. Arm steak, boneless | 23. Top loin steak, boneless | 38. Round steak |
| 8. Blade roast | 24. Short ribs | 39. Round steak, boneless |
| 9. 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 |
| 13. 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 |

Lamb Retail Meat Cuts

- | | | |
|--------------------------|----------------------|-------------------------|
| 48. Breast | 54. Sirloin chop | 60. Rib roast |
| 49. Breast riblets | 55. Leg sirloin half | 61. Rib roast, boneless |
| 50. American style roast | 56. Loin chop | 62. Shanks |
| 51. Leg Center slice | 57. Loin double chop | 63. Blade chop |
| 52. French style roast | 58. Loin roast | 64. Neck slice |
| 53. Leg shank half | 59. Rib chop | 65. Shoulder square cut |

Pork Retail Meat Cuts

- | | | |
|-----------------------------|-----------------------|------------------------------------|
| 66. Fresh ham center slice | 73. Center rib roast | 80. Arm roast |
| 67. Fresh ham rump portion | 74. Center loin roast | 81. Arm steak |
| 68. Fresh ham shank portion | 75. Loin chop | 82. Blade Boston roast |
| 69. Fresh side pork | 76. Rib chop | 83. Sliced bacon |
| 70. Blade chop | 77. Sirloin chop | 84. Smoked jowl |
| 71. Blade roast | 78. Top loin chop | 85. Smoked Canadian
Style Bacon |
| 72. Butterfly chop | 79. Arm picnic roast | |

Species of Cut – to be used in answer column 2 by Seniors

(You may use the letter more than once!!)

B. Beef

L. Lamb

P. Pork

Wholesale Cut of Origin – to be used in answer column 3 by Seniors

Beef Wholesale Cuts

- A. Brisket
- B. Chuck
- C. Flank
- D. Loin
- E. Plate
- F. Rib
- G. Round
- H. Shank
- I. Variety cut

Lamb Wholesale Cuts

- J. Breast
- K. Leg
- L. Loin
- M. Rack
- N. Shank
- O. Shoulder

Pork Wholesale Cuts

- P. Belly (Side, Bacon)
- Q. Boston Butt
- R. Ham
- S. Jowl
- T. Loin
- U. Picnic Shoulder

KEY

Senior Retail Meat Cut Identification – 2019

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. Use capital letters and write neatly. **Seniors** provide answers for retail cut name, species of cut, and wholesale cut of origin. Each question is worth 5 points (150 points total for Seniors).

	Retail Cut Name	Species of Cut	Wholesale Cut of Origin
1.	31	B	F
2.	66	P	R
3.	20	B	D
4.	1	B	I
5.	56	L	L
6.	52	L	K
7.	3	B	A
8.	70	P	T
9.	24	B	E
10.	73	P	T

Retail Names – to be used in answer column 1 by **Seniors**

Beef Retail Meat Cuts

- | | | |
|-------------------------------|------------------------------------|---------------------------|
| 1. Beef for stew | 17. Sirloin steak, shell | 32. Bottom round roast |
| 2. Brisket, point half | 18. Sirloin steak, boneless | 33. Bottom round steak |
| 3. Brisket, whole | 19. Tenderloin steak | 34. Eye round roast |
| 4. Arm roast | 20. Porterhouse steak | 35. Eye round steak |
| 5. Arm roast, boneless | 21. T-bone steak | 36. Heel of round roast |
| 6. Arm steak | 22. Top loin steak | 37. Rump roast, boneless |
| 7. Arm steak, boneless | 23. Top loin steak, boneless | 38. Round steak |
| 8. Blade roast | 24. Short ribs | 39. Round steak, boneless |
| 9. 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 |
| 13. 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 |

Lamb Retail Meat Cuts

- | | | |
|--------------------------|----------------------|-------------------------|
| 48. Breast | 54. Sirloin chop | 60. Rib roast |
| 49. Breast riblets | 55. Leg sirloin half | 61. Rib roast, boneless |
| 50. American style roast | 56. Loin chop | 62. Shanks |
| 51. Leg Center slice | 57. Loin double chop | 63. Blade chop |
| 52. French style roast | 58. Loin roast | 64. Neck slice |
| 53. Leg shank half | 59. Rib chop | 65. Shoulder square cut |

Pork Retail Meat Cuts

- | | | |
|-----------------------------|-----------------------|------------------------------------|
| 66. Fresh ham center slice | 73. Center rib roast | 80. Arm roast |
| 67. Fresh ham rump portion | 74. Center loin roast | 81. Arm steak |
| 68. Fresh ham shank portion | 75. Loin chop | 82. Blade Boston roast |
| 69. Fresh side pork | 76. Rib chop | 83. Sliced bacon |
| 70. Blade chop | 77. Sirloin chop | 84. Smoked jowl |
| 71. Blade roast | 78. Top loin chop | 85. Smoked Canadian
Style Bacon |
| 72. Butterfly chop | 79. Arm picnic roast | |

Species of Cut – to be used in answer column 2 by **Seniors**

(You may use the letter more than once!!)

B. Beef

L. Lamb

P. Pork

Wholesale Cut of Origin – to be used in answer column 3 by **Seniors**

Beef Wholesale Cuts

- A. Brisket
- B. Chuck
- C. Flank
- D. Loin
- E. Plate
- F. Rib
- G. Round
- H. Shank
- I. Variety cut

Lamb Wholesale Cuts

- J. Breast
- K. Leg
- L. Loin
- M. Rack
- N. Shank
- O. Shoulder

Pork Wholesale Cuts

- P. Belly (Side, Bacon)
- Q. Boston Butt
- R. Ham
- S. Jowl
- T. Loin
- U. Picnic Shoulder

Name _____ Contestant # _____ County _____

Senior Livestock Feed Identification – 2019

INSTRUCTIONS: For each sample, use the columns on the right to choose the number or letter that indicates your answer for each livestock feedstuff. Use capital letters and write neatly. **Seniors** provide answers for feedstuff name, nutrient group, and characteristics/uses of the feedstuff. Each question is worth 5 points (150 points total for Seniors).

	Feedstuff Name	Nutrient Group	Characteristics/ Uses
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

Feed Names – to be used in answer column 1 by <u>Seniors</u>		
1. Alfalfa cubes	25. Grain sorghum (whole)	51. Soybean meal
2. Alfalfa pasture	26. Ground ear corn	52. Soybeans (whole)
3. Barley (whole)	27. Ground limestone	53. Spray-dried animal plasma
4. Blood meal	28. Ground shelled corn	54. Spray-dried whey
5. Brewers dried grain	29. Kentucky Bluegrass pasture	55. Steam flaked corn
6. Canola meal	30. L-lysine HCl	56. Steam rolled barley
7. Copper sulfate	31. L-threonine	57. Steam rolled oats
8. Corn distillers dried grain	32. L-tryptophan	58. Steamed bone meal
9. Corn distillers dried grain with soluble	33. Linseed meal	59. Sunflower meal
10. Corn gluten feed	34. Liquid molasses	60. Tall Fescue hay
11. Copper Sulfate	35. Meat and bone meal	61. Tall Fescue pasture
12. Cottonseed (whole)	36. Millet (whole)	62. Timothy hay
13. Cottonseed hulls	37. Oats (whole)	63. Timothy pasture
14. Cottonseed meal	38. Oat hulls	64. Trace-mineral premix
15. Cracked shelled corn	39. Orchardgrass hay	65. Trace-mineralized salt
16. Crimped oats	40. Orchardgrass pasture	66. Triticale (whole)
17. Defluorinated rock phosphate	41. Oyster shells	67. Tryptosine
18. Dicalcium phosphate	42. Peanut meal	68. Urea
19. DL-methionine	43. Red Clover hay	69. Vegetable oil
20. Dried Beet pulp	44. Red Clover pasture	70. Vitamin premix
21. Dried molasses	45. Roller dried whey	71. Wheat (whole)
22. Dried skim milk	46. Rye (whole)	72. Wheat bran
23. Feather meal	47. Salt, white	73. Wheat middlings
24. Fish meal	48. Santoquin	74. White Clover hay
	49. Shelled corn	75. White Clover pasture
	50. Soybean hulls	

Feeds Nutrient Groups – to be used in answer column 2 by <u>Seniors</u>		
(You may use the letter more than once!!)		
B. By-product feed	M. Mineral	V. Vitamin
C. Carbohydrate (energy)	P. Protein	
F. Fats (energy)		

Important Characteristics/Uses of Feedstuffs – to be used in answer column 3 by and <u>Seniors</u>	
<p>A. These have been passed through a roller to produce a flake. Primarily used in horse feeds or young animals.</p> <p>B. Shelled corn that has been passed through a roller mill to break it into smaller particles.</p> <p>C. Byproduct of wheat flour milling that consists of the fine particles of wheat bran, wheat shorts, wheat germ, wheat flour, and some of the offal from the “tail of the mill”.</p> <p>D. Bulk density = 5 pounds/bushel</p> <p>E. Bulk density = 32 pounds/bushel</p> <p>F. Grown primarily in dry regions of U.S., where there is not enough rain for corn production.</p> <p>G. A source of nitrogen. Should be fed to ruminants only. Need to be mixed with a feed source that contains energy.</p>	<p>H. Oil is removed. High fiber, palatable feedstuff used as a roughage for cattle. Will increase bulk density in grain mixes.</p> <p>I. Produced by extracting the sugar from sugar beets and drying the remaining pulp.</p> <p>J. High in protein, and contains active immunoglobulins.</p> <p>K. Commonly used source of calcium and phosphorus in livestock feeds.</p> <p>L. Also referred to as bluestone.</p> <p>M. Liquid byproduct of the manufacture of sugar from either sugar beets or, more commonly, sugarcane.</p> <p>N. Primarily used in human food, but can be fed to livestock. Usually processed in some way prior to feeding.</p>

KEY

Senior Livestock Feed Identification – 2019

INSTRUCTIONS: For each sample, use the columns on the right to choose the number or letter that indicates your answer for each livestock feedstuff. Use capital letters and write neatly. **Seniors** provide answers for feedstuff name, nutrient group, and characteristics/uses of the feedstuff. Each question is worth 5 points (150 points total for Seniors).

	Feedstuff Name	Nutrient Group	Characteristics/Uses
1.	<u>71</u>	<u>C</u>	<u>N</u>
2.	<u>73</u>	<u>B or C</u>	<u>C</u>
3.	<u>7 or 11</u>	<u>M</u>	<u>L</u>
4.	<u>34</u>	<u>C</u>	<u>M</u>
5.	<u>15</u>	<u>C</u>	<u>B</u>
6.	<u>13</u>	<u>B or C</u>	<u>H</u>
7.	<u>16</u>	<u>C</u>	<u>A</u>
8.	<u>25</u>	<u>C</u>	<u>F</u>
9.	<u>20</u>	<u>B or C</u>	<u>I</u>
10.	<u>68</u>	<u>P</u>	<u>G</u>

Feed Names – to be used in answer column 1 by **Seniors**

- | | | |
|---|--------------------------------|-------------------------------|
| 1. Alfalfa cubes | 25. Grain sorghum (whole) | 51. Soybean meal |
| 2. Alfalfa pasture | 26. Ground ear corn | 52. Soybeans (whole) |
| 3. Barley (whole) | 27. Ground limestone | 53. Spray-dried animal plasma |
| 4. Blood meal | 28. Ground shelled corn | 54. Spray-dried whey |
| 5. Brewers dried grain | 29. Kentucky Bluegrass pasture | 55. Steam flaked corn |
| 6. Canola meal | 30. L-lysine HCl | 56. Steam rolled barley |
| 7. Copper sulfate | 31. L-threonine | 57. Steam rolled oats |
| 8. Corn distillers dried grain | 32. L-tryptophan | 58. Steamed bone meal |
| 9. Corn distillers dried grain with soluble | 33. Linseed meal | 59. Sunflower meal |
| 10. Corn gluten feed | 34. Liquid molasses | 60. Tall Fescue hay |
| 11. Copper Sulfate | 35. Meat and bone meal | 61. Tall Fescue pasture |
| 12. Cottonseed (whole) | 36. Millet (whole) | 62. Timothy hay |
| 13. Cottonseed hulls | 37. Oats (whole) | 63. Timothy pasture |
| 14. Cottonseed meal | 38. Oat hulls | 64. Trace-mineral premix |
| 15. Cracked shelled corn | 39. Orchardgrass hay | 65. Trace-mineralized salt |
| 16. Crimped oats | 40. Orchardgrass pasture | 66. Triticale (whole) |
| 17. Defluorinated rock phosphate | 41. Oyster shells | 67. Tryptosine |
| 18. Dicalcium phosphate | 42. Peanut meal | 68. Urea |
| 19. DL-methionine | 43. Red Clover hay | 69. Vegetable oil |
| 20. Dried Beet pulp | 44. Red Clover pasture | 70. Vitamin premix |
| 21. Dried molasses | 45. Roller dried whey | 71. Wheat (whole) |
| 22. Dried skim milk | 46. Rye (whole) | 72. Wheat bran |
| 23. Feather meal | 47. Salt, white | 73. Wheat middlings |
| 24. Fish meal | 48. Santoquin | 74. White Clover hay |
| | 49. Shelled corn | 75. White Clover pasture |
| | 50. Soybean hulls | |

Feeds Nutrient Groups – to be used in answer column 2 by **Seniors**

(You may use the letter more than once!!)

- | | | |
|--------------------------|------------|------------|
| B. By-product feed | M. Mineral | V. Vitamin |
| C. Carbohydrate (energy) | P. Protein | |
| F. Fats (energy) | | |

Important Characteristics/Uses of Feedstuffs – to be used in answer column 3 by and **Seniors**

- | | |
|--|--|
| A. These have been passed through a roller. Primarily used in horse feeds or young animals. | H. Oil is removed. High fiber, palatable feedstuff used as a roughage for cattle. Will increase bulk density in grain mixes. |
| B. Shelled corn that has been passed through a roller mill to break it into smaller particles. | I. Produced by extracting the sugar from sugar beets and drying the remaining pulp. |
| C. Byproduct of wheat flour milling that consists of the fine particles of wheat bran, wheat shorts, wheat germ, wheat flour, and some of the offal from the “tail of the mill”. | J. High in protein, and contains active immunoglobulins. |
| D. Bulk density = 5 pounds/bushel | K. Commonly used source of calcium and phosphorus in livestock feeds. |
| E. Bulk density = 32 pounds/bushel | L. Also referred to as bluestone. |
| F. Grown primarily in dry regions of U.S., where there is not enough rain for corn production. | M. Liquid byproduct of the manufacture of sugar from either sugar beets or, more commonly, sugarcane. |
| G. A source of nitrogen. Should be fed to ruminants only. Need to be mixed with a feed source that contains energy. | N. Primarily used in human food, but can be fed to livestock. Usually processed in some way prior to feeding. |

1.



2





3



4



5

6



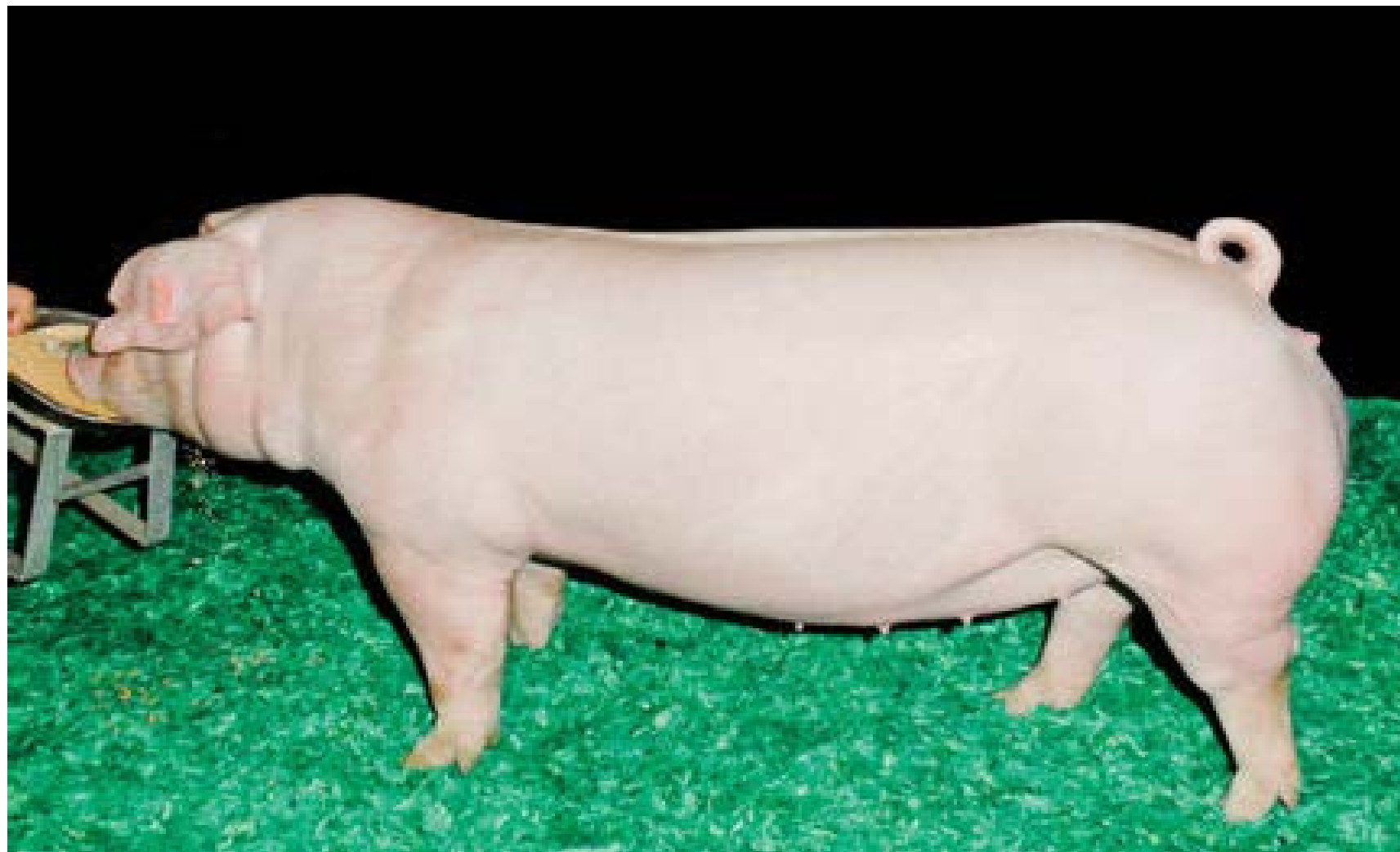


7

8.



9.



10.



Name _____ Contestant # _____ County _____

Senior Livestock Breeds Identification - 2019

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each livestock breed. Use capital letters and write neatly. **Seniors** provide answers for breed name, origin of breed, and important characteristics/traits. Each question is worth 5 points for each part of the question. (150 points total for Seniors).

	Breed Name	Origin of Breed	Important Traits
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

Breed Names – to be used in answer column 1 by Seniors

<u>Beef Breeds</u>	<u>Goat Breeds</u>	<u>Sheep Breeds</u>	<u>Swine Breeds</u>
1. Angus	17. Alpine	30. Cheviot	47. Berkshire
2. Brahman	18. American Cashmere	31. Columbia	48. Chester White
3. Brangus	19. Angora	32. Corriedale	49. Duroc
4. Charolais	20. Boer	33. Dorper	50. Hampshire
5. Chianina	21. Kiko	34. Dorset	51. Hereford
6. Gelbvieh	22. Lamancha	35. Finnsheep	52. Landrace
7. Hereford	23. Nubian	36. Hampshire	53. Pietrain
8. Limousin	24. Oberhasli	37. Katahdin	54. Poland China
9. Maine Anjou	25. Pygmy	38. Merino	55. Spotted
10. Polled Hereford	26. Saanen	39. Montadale	56. Tamworth
11. Red Angus	27. Spanish	40. Oxford	57. Yorkshire
12. Red Poll	28. Tennessee Fainting	41. Polled Dorset	
13. Santa Gertrudis	29. Toggenburg	42. Rambouillet	
14. Shorthorn		43. Romney	
15. Simmental		44. Southdown	
16. Tarentaise		45. Suffolk	
		46. White Face Cross	

Origins of Breeds – to be used in answer column 2 by Intermediates

Answers will be used ONLY once, accept for the letter (A)

A. Africa	F. England
B. Sussex, England	G. Danish descendants
C. British Isles	H. Developed in Butler and Warren Counties, OH, US
D. Developed from the Jersey Red and the Duroc of NY	I. Herefordshire, England
E. Suffolk, England	

Important Characteristics/Traits Origins of Breeds – to be used in answer column 3 by Seniors

Some answers will be used more than once

<p><u>Beef Cattle Characteristics/Traits</u></p> <p>A. Foraging Ability and Docility.</p> <p>B. Heavily Muscled, Excellent Growth Rate, Late Maturing.</p> <p>C. Excellent Meat Quality (nicely marbled), Calving Ease, and Hardy.</p>	<p><u>Sheep Characteristics/Traits</u></p> <p>F. Carcass conformation, early maturity, and adaptability to climates.</p> <p>G. Prolificacy, Wool Production and Mothering Ability.</p> <p>H. Muscling and leanness, growth rate, and fertility.</p>
<p><u>Goats Characteristics/Traits</u></p> <p>D. Meat yield, growth rate, browsing ability, fertility, adaptability to wide Climatic conditions, and extended breeding season.</p> <p>E. High Butterfat Content, Extended Breeding Season, Multi-Purpose use, (milk, meat and hide).</p>	<p><u>Swine Characteristics/Traits</u></p> <p>I. Extreme muscling and leanness.</p> <p>J. Meat Quality (Intramuscular Fat).</p> <p>K. Excellent rate of gain and feed efficiency.</p> <p>L. Prolificacy (litter size), milking ability, mothering ability.</p>

KEY

Senior Livestock Breeds Identification – 2019

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each livestock breed. Use capital letters and write neatly. **Seniors** provide answers for breed name, origin of breed, and important characteristics/traits. Each question is worth 5 points for each part of the question. (150 points total for Seniors).

	Breed Name	Origin of Breed	Important Traits
1.	<u>44</u>	<u>B</u>	<u>F</u>
2.	<u>33</u>	<u>A</u>	<u>G</u>
3.	<u>7</u>	<u>I</u>	<u>A</u>
4.	<u>57</u>	<u>F</u>	<u>L</u>
5.	<u>45</u>	<u>E</u>	<u>H</u>
6.	<u>11</u>	<u>C</u>	<u>C</u>
7.	<u>54</u>	<u>H</u>	<u>I</u>
8.	<u>20</u>	<u>A</u>	<u>D</u>
9.	<u>52</u>	<u>G</u>	<u>L</u>
10.	<u>49</u>	<u>D</u>	<u>J</u>

Breed Names – to be used in answer column 1 by **Seniors**

Beef Breeds	Goat Breeds	Sheep Breeds	Swine Breeds
1. Angus	17. Alpine	30. Cheviot	47. Berkshire
2. Brahman	18. American Cashmere	31. Columbia	48. Chester White
3. Brangus	19. Angora	32. Corriedale	49. Duroc
4. Charolais	20. Boer	33. Dorper	50. Hampshire
5. Chianina	21. Kiko	34. Dorset	51. Hereford
6. Gelbvieh	22. Lamancha	35. Finnsheep	52. Landrace
7. Hereford	23. Nubian	36. Hampshire	53. Pietrain
8. Limousin	24. Oberhasli	37. Katahdin	54. Poland China
9. Maine Anjou	25. Pygmy	38. Merino	55. Spotted
10. Polled Hereford	26. Saanen	39. Montadale	56. Tamworth
11. Red Angus	27. Spanish	40. Oxford	57. Yorkshire
12. Red Poll	28. Tennessee Fainting	41. Polled Dorset	
13. Santa Gertrudis	29. Toggenburg	42. Rambouillet	
14. Shorthorn		43. Romney	
15. Simmental		44. Southdown	
16. Tarentaise		45. Suffolk	
		46. White Face Cross	

Origins of Breeds – to be used in answer column 2 by **Intermediates**

Answers will be used ONLY once, except for the letter (A)

A. Africa	F. England
B. Sussex, England	G. Danish descendants
C. British Isles	H. Developed in Butler and Warren Counties, OH, US
D. Developed from the Jersey Red and the Duroc of NY	I. Herefordshire, England
E. Suffolk, England	

Important Characteristics/Traits Origins of Breeds – to be used in answer column 3 by **Seniors**

Answers will be used only once EXCEPT for (L).

Beef Cattle Characteristics/Traits

- A. Foraging Ability and Docility.
- B. Heavily Muscled, Excellent Growth Rate, Late Maturing.
- C. Excellent Meat Quality (nicely marbled), Calving Ease, and Hardy.

Goats Characteristics/Traits

- D. Meat yield, growth rate, browsing ability, fertility, adaptability to wide Climatic conditions, and extended breeding season.
- E. High Butterfat Content, Extended Breeding Season, Multi-Purpose use, (milk, meat and hide).

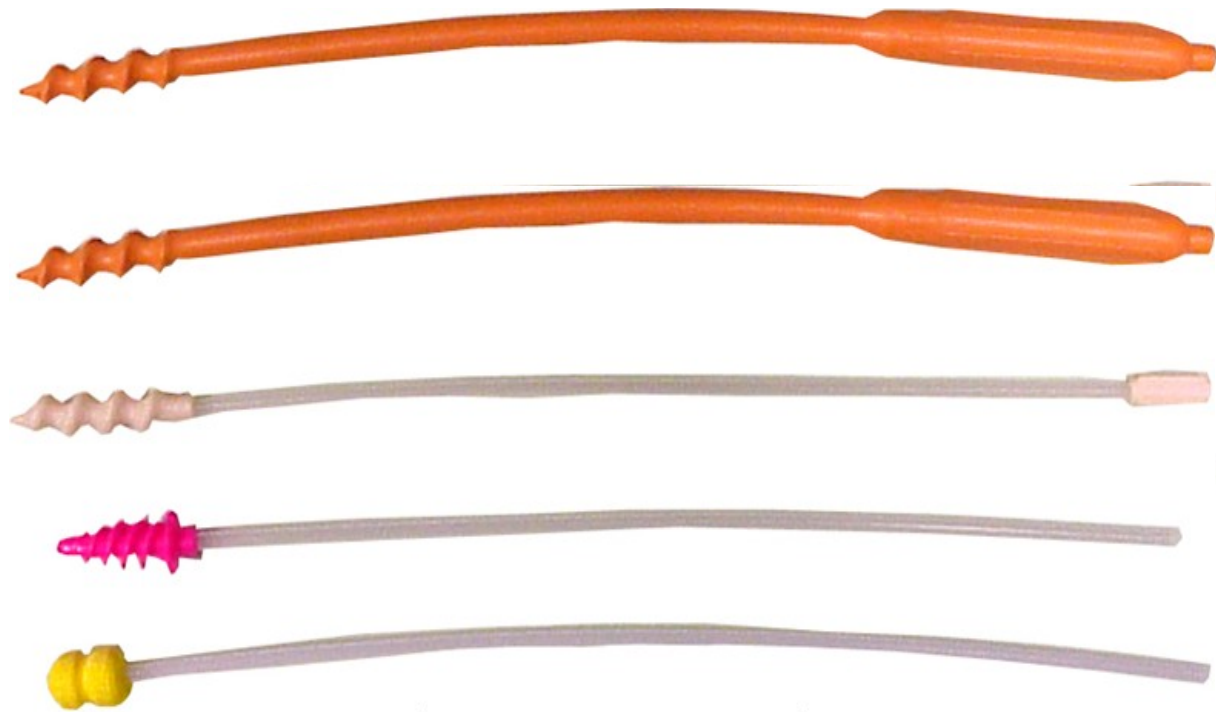
Sheep Characteristics/Traits

- F. Carcass conformation, early maturity, and adaptability to climates.
- G. Meat qualities, High production rate (Fertility), Reproduction (Twins), Weight gain, Carcass quality, can be white or have a black head.
- H. Muscling and leanness, growth rate, and fertility.

Swine Characteristics/Traits

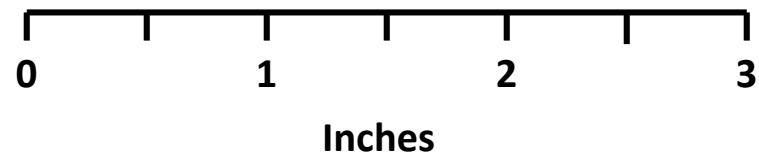
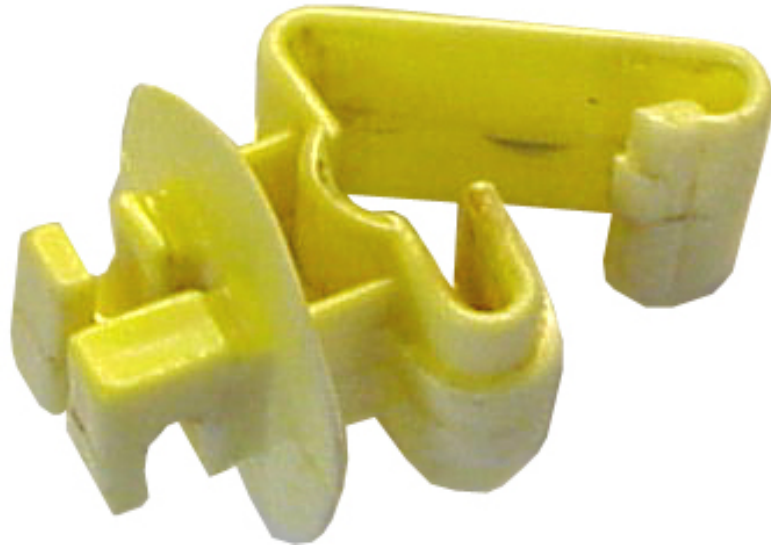
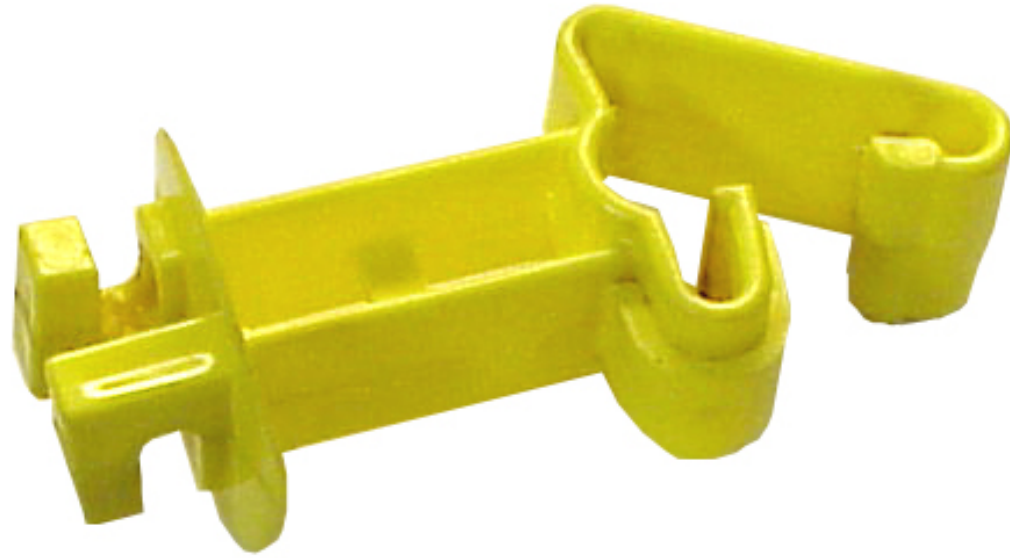
- I. Meat Quality (Intramuscular Fat).
- J. Excellent rate of gain and feed efficiency.
- K. ?
- L. Prolificacy (litter size), milking ability, mothering ability.

1

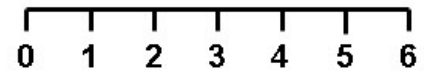


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2



3

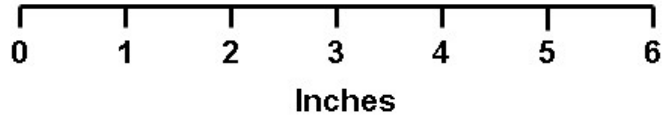
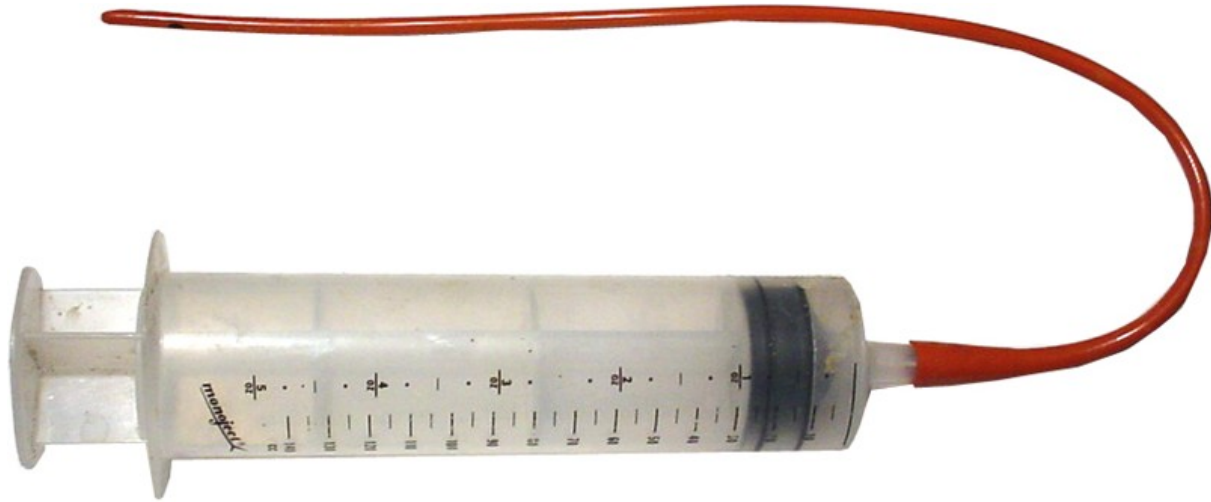


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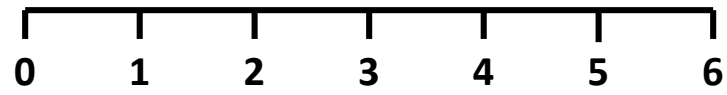
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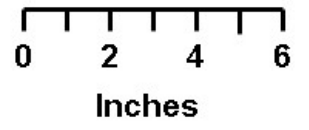


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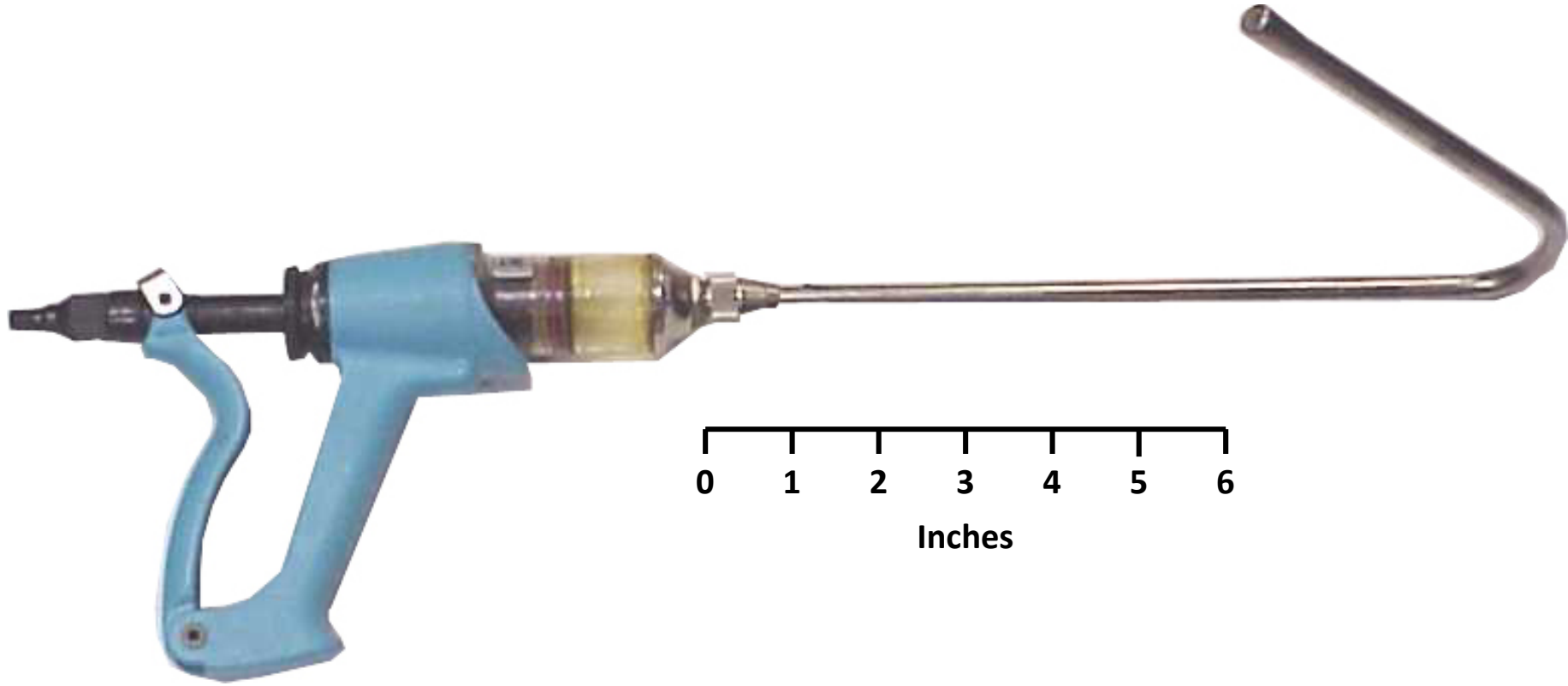
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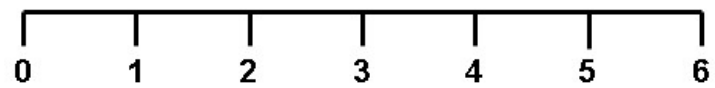
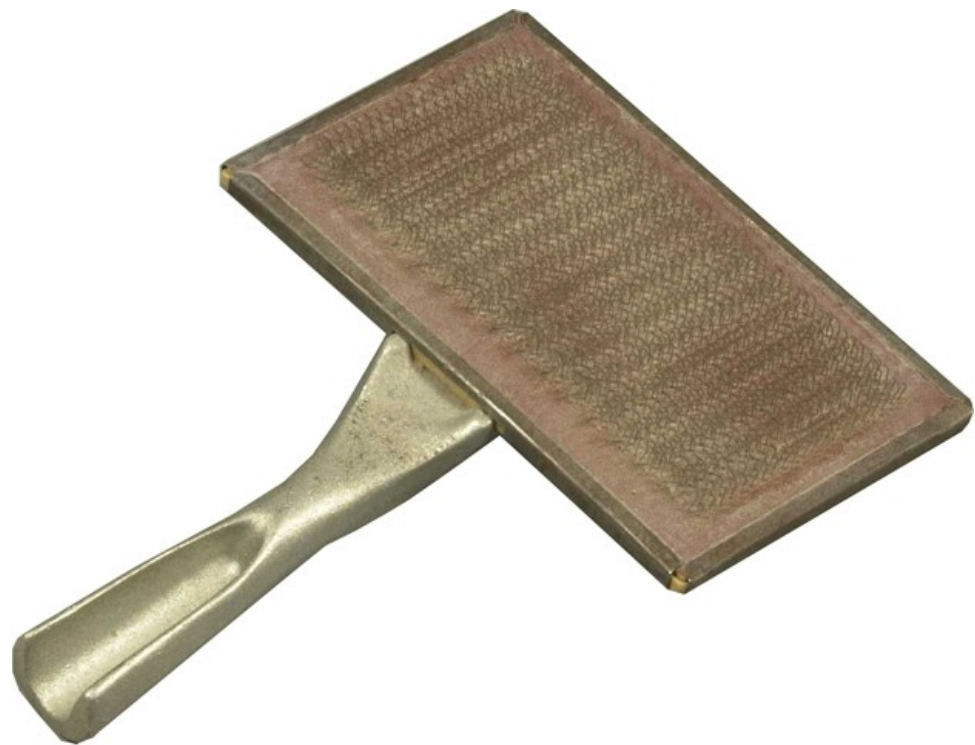
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9



10



Inches

Name _____ Contestant # _____ County _____

Senior Livestock and Meat Equipment Identification – 2019

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each piece of equipment. Use capital letters and write neatly. **Seniors** provide answers for livestock/meat equipment names and equipment use. Each question is worth 5 points (100 points total for Seniors).

	Equipment Name	Equipment Use
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____

Equipment Names – to be used in answer column 1 by Seniors		
	Livestock Equipment	Meat Equipment
1.	All Weather Paintstik	45. Backfat ruler
2.	Artificial insemination pipettes (Swine)	46. Band saw
3.	Bowl waterer	47. Bone dust scraper
4.	Balling gun	48. Boning knife
5.	Barnes dehorner	49. Bowl chopper
6.	Cattle clippers	50. Dehairing machine
7.	Clipper comb	51. Electrical stunner
8.	Clipper cutter	52. Emulsifier
9.	Currycomb	53. Ham net
10.	Disposable syringes	54. Hand saw
	11. Drench gun	55. Hard hat
	12. Ear notchers	56. Loin eye area grid
	13. Ear tag	57. Meat grinder
	14. Elastrator	58. Meat grinder auger
	15. Electric branding iron	59. Meat grinder knife
	16. Electric docker	60. Meat grinder plate
	17. Electric fence wire roller	61. Meat grinder stuffing rod
	18. Electric sheep shears	62. Meat hook
	19. Emasculator (Burdizzo)	63. Meat tenderizer
	20. Ewe prolapse retainer	64. Meat trolley
	21. Fencing pliers	65. Metal knife scabbard
	22. Foot rot shears	66. Rubber apron
	23. Freeze branding iron	67. Sharpening steel
	24. Hanging Scale	68. Smoke house
	25. Hand sheep shears	69. Thermometer
	26. Lamb tube feeder	70. Tumbler
	27. Needle teeth nippers	71. Vacuum sausage stuffer
	28. Nipple waterer	72. Whale saw
	29. Nose ring	
	30. Nose ring pliers	
	31. Obstetrical (O.B.) chain	
	32. Plastic Sleeve	
	33. Ralgro pellet injector	
	34. Ram marking harness	
	35. Rumen magnate	
	36. Scotch Comb	
	37. Semen Storage Tank	
	38. Slap tattoo	
	39. SYNOVEX Implant cartridge	
	40. SYNOVEX Implant gun	
	41. T-Post Electric Fence Insulator	
	42. Water Heater	
	43. Wood post electric fence insulator	
	44. Wool Card	

Equipment Uses – to be used in answer column 2 by **Seniors**

- | | |
|---|---|
| <p>A. A non-rusting, electric fence insulator that fits snugly around the web and flange of T-posts.</p> <p>B. A device placed on rams that shows when a ewe has been serviced.</p> <p>C. Used to chop meat for sausages.</p> <p>D. Used to store frozen semen until it is ready to be used. Holds liquid nitrogen to keep the semen frozen.</p> <p>E. An instrument used for the bloodless castration (young male calves, lambs, and goats) and docking of tails (young lambs and goats).</p> <p>F. Used to card (comb or rake) the wool on sheep prior to shearing.</p> <p>G. An instrument used to control vaginal prolapse in ewes.</p> <p>H. Device used to deposit boar semen into reproductive tract of a gilt or sow.</p> <p>I. Used for temporary identification of livestock.</p> | <p>J. An automatic waterer used to provide clean, fresh water to pigs.</p> <p>K. Used to keep water tanks from freezing.</p> <p>L. An instrument used for the bloodless castration of young male calves, lambs, and goats by severing (crushing) the testicular cord.</p> <p>M. Used to clip off the 4 pairs of very sharp teeth found in baby pigs.</p> <p>N. Used to help pull unborn calves from cows that are experiencing calving problems (dystocia).</p> <p>O. A device used to effectively feed newborn lambs the ewe's colostrum.</p> <p>P. Used to administer precise amounts of liquid medications to cattle, goats, sheep and horses.</p> |
|---|---|

KEY

Senior Livestock and Meat Equipment Identification – 2019

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each piece of equipment. Use capital letters and write neatly. **Seniors** provide answers for livestock/meat equipment names and equipment use. Each question is worth 5 points (100 points total for Seniors).

	Equipment Name	Equipment Use
1.	<u>2</u>	<u>H</u>
2.	<u>41</u>	<u>A</u>
3.	<u>31</u>	<u>N</u>
4.	<u>37</u>	<u>D</u>
5.	<u>26</u>	<u>O</u>
6.	<u>42</u>	<u>K</u>
7.	<u>1</u>	<u>I</u>
8.	<u>34</u>	<u>B</u>
9.	<u>11</u>	<u>P</u>
10.	<u>44</u>	<u>F</u>

Equipment Names – to be used in answer column 1 by **Seniors**

Livestock Equipment		Meat Equipment
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3. Bowl waterer	28. Nipple waterer	47. Bone dust scraper
4. Balling gun	29. Nose ring	48. Boning knife
5. Barnes dehorner	30. Nose ring pliers	49. Bowl chopper
6. Cattle clippers	31. Obstetrical (O.B.) chain	50. Dehairing machine
7. Clipper comb	32. Plastic Sleeve	51. Electrical stunner
8. Clipper cutter	33. Ralgro pellet injector	52. Emulsifier
9. Currycomb	34. Ram marking harness	53. Ham net
10. Disposable syringes	35. Rumen magnate	54. Hand saw
11. Drench gun	36. Scotch Comb	55. Hard hat
12. Ear notchers	37. Semen Storage Tank	56. Loin eye area grid
13. Ear tag	38. Slap tattoo	57. Meat grinder
14. Elastrator	39. SYNOVEX Implant cartridge	58. Meat grinder auger
15. Electric branding iron	40. SYNOVEX Implant gun	59. Meat grinder knife
16. Electric docker	41. T-Post Electric Fence Insulator	60. Meat grinder plate
17. Electric fence wire roller	42. Water Heater	61. Meat grinder stuffing rod
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19. Emascutome (Burdizzo)	44. Wool Card	63. Meat tenderizer
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24. Hanging Scale		68. Smoke house
25. Hand sheep shears		69. Thermometer
		70. Tumbler
		71. Vacuum sausage stuffer
		72. Whale saw

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- | | |
|---|---|
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|---|---|

MERCK ANIMAL HEALTH Intervet Inc.

2 GIRALDA FARMS, MADISON, NJ, 07940

Customer Service: 800-521-5767
Order Desk: 800-648-2118
Technical Service (Companion Animal): 800-224-5318
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Website: www.merck-animal-health-usa.com

BO-SE®



Intervet/Merck Animal Health

PRODUCT INFORMATION

(SELENIUM, VITAMIN E)

Injection

FOR VETERINARY USE ONLY

CAUTION Federal law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION BO-SE (selenium, vitamin E) is an emulsion of selenium-tocopherol for the prevention and treatment of white muscle disease (Selenium-Tocopherol Deficiency) syndrome in calves, lambs, and ewes, and as an aid in the prevention and treatment of Selenium-Tocopherol Deficiency in sows and weanling pigs.

PHARMACOLOGY It has been demonstrated that selenium and tocopherol exert physiological effects and that these effects are intertwined with sulfur metabolism. Additionally, tocopherol appears to have a significant role in the oxidation process, thus suggesting an interrelationship between selenium and tocopherol in overcoming sulfur-induced depletion and restoring normal metabolism. Although oral ingestion of adequate amounts of selenium and tocopherol would seemingly restore normal metabolism, it is apparent that the presence of sulfur and, perhaps, other factors interfere during the digestive process with proper utilization of selenium and tocopherol. When selenium and tocopherol are injected, they bypass the digestive process and exert their full metabolic effects promptly on cell metabolism.

INDICATIONS BO-SE (selenium, vitamin E) is recommended for the prevention and treatment of white muscle disease (Selenium-Tocopherol Deficiency) syndrome in calves, lambs, and ewes. Clinical signs are: stiffness and lameness, diarrhea and unthriftiness, pulmonary distress and/or cardiac arrest. In sows and weanling pigs, as an aid in the prevention and treatment of diseases associated with Selenium-Tocopherol deficiency, such as hepatic necrosis, mulberry heart disease, and white muscle disease. Where known deficiencies of selenium and/or vitamin E exist, it is advisable, from the prevention and control standpoint, to inject the sow during the last week of pregnancy.

CONTRAINDICATIONS DO NOT USE IN PREGNANT EWES. Deaths and abortions have been reported in pregnant ewes injected with this product.

WARNINGS Anaphylactoid reactions, some of which have been fatal, have been reported in animals administered BO-SE Injection. Signs include excitement, sweating, trembling, ataxia, respiratory distress, and cardiac dysfunction.

Discontinue use 30 days before the treated calves are slaughtered for human consumption. Discontinue use 14 days before the treated lambs, ewes, sows, and pigs are slaughtered for human consumption. Selenium-Vitamin E preparations can be toxic when improperly administered.

PRECAUTIONS Selenium-Tocopherol Deficiency (STD) syndrome produces a variety and complexity of symptoms often interfering with a proper diagnosis. Even in selenium deficient areas there are other disease conditions which produce similar clinical signs. It is imperative that all these conditions be carefully considered prior to treatment of STD syndrome. Serum selenium levels, elevated SGOT, and creatine levels may serve as aids in arriving at a diagnosis of STD, when associated with other indices. Selenium is toxic if administered in excess. A fixed dose schedule is therefore important (read package insert for each selenium-tocopherol product carefully before using).

ADVERSE REACTIONS Reactions, including acute respiratory distress, frothing from the nose and mouth, bloating, severe depression, abortions, and deaths have occurred in pregnant ewes. No known treatment exists because at this time the cause of the reaction is unknown.

DOSAGE AND ADMINISTRATION Inject subcutaneously or intramuscularly. Calves: 2.5-3.75 mL per 100 pounds of body weight depending on the severity of the condition and the geographical area. Lambs 2 weeks of age and older: 1 mL per 40 pounds of body weight (minimum, 1 mL). Ewes: 2.5 mL per 100 pounds of body weight. Sows: 1 mL per 40 pounds of body weight. Weanling pigs: 1 mL per 40 pounds of body weight (minimum, 1 mL). Not for use in newborn pigs.

STORAGE Store between 2° and 30°C (36° and 86°F). Protect from freezing.

HOW SUPPLIED 100 mL sterile, multiple dose vial, NDC 0061-0807-05.

NADA #12-635, Approved by FDA.

October 1998

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Made in Germany.

141329 R1

CPN: 1047025.3

Name_____Contestant#_____County_____

Senior Individual Quality Assurance – 2019

You have a small show pig swine operation. Your herd consists of 10 sows. As you sell most of your pigs to local 4-H/FFA members and the non-show pigs to an individual who wants to feed out a few each year, it is important to raise and wean off healthy pigs. In a previous farrowing period you had trouble with weak pigs and after a vet visit it was decided to plan a course of action including BO-SE. The problem seemed to be corrected after the next farrowing period, so you have continued with the same program. Use the **partial BO-SE label** and your knowledge of quality assurance management to answer the **10 questions** below relating to quality assurance.

Circle your answers. (10 questions worth 5 points per question for 50 total points).

1. Abortions and Deaths have occurred when used to inject?

- | | |
|------------------|-------------------|
| A.) Weaned lambs | C.) Bred Sows |
| B.) Weaned pigs | D.) Pregnant ewes |

2. How is BO-SE administered to cattle, sheep or swine?

- | | |
|-----------------------------|------------------------------|
| A.) On the skin (topically) | C.) In the nose (intranasal) |
| B.) Intramuscular | D.) In the feed |

3. When and adverse reaction occurs from using BO-SE what should you do?

- | | |
|--------------------------------|------------------------|
| A.) Give another shot of BO-SE | C.) No known treatment |
| B.) Give 3 CC of Penicillin | D.) Drench with water |

4. If you have a group of pigs averaging 60 pounds apiece, what dosage would you use?

- | | |
|------------|----------|
| A.) 1 ½ mL | C.) 2 mL |
| B.) ¼ mL | D.) 6 mL |

5. What is the best way to fully understand how to properly use BO-SE?

- A.) Follow your veterinarians instructions and/or the label insert for BO-SE
- B.) Carefully read and follow the entire insert for Pulmotil 90
- C.) Only take the advice of your neighbor down the road
- D.) All are correct

6. New born pigs are given a shot of _____?

- A.) BO-SE
- B.) Water
- C.) Iron
- D.) PG 600 (used to bring sows in heat)

7. What is the closest to the correct dosage for a 420 pound Sow?

- A.) 2 mL
- B.) 7.5 mL
- C.) 10 mL
- D.) 13.75 mL

8. When injecting BO-SE we should not give it in the _____?

- A.) Loin
- B.) Neck
- C.) Under skin on Neck
- D.) Both B and C

9. If you give a show lamb an injection of BO-SE on July 1, when would it be safe to harvest for food?

- A.) July 2
- B.) August 1
- C.) July 16
- D.) August 6

10. BO-SE should not be stored at _____?

- A.) 2 degrees C and 30 degrees C
- B.) 100 degrees F
- C.) 36 degrees F and 86 degrees F
- D.) Both A and C

KEY

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- B.) 100 degrees F
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Senior Quiz KEY- 2019

Carefully circle the correct answer to each of the questions below. (Each question is worth 2 points each for a total of 50 points)

1.) What is the proportion (percentage) of an animal's carcass weight relative to its live weight?

- a. Shrink
- b. Dressing loss
- c. Break even cost
- d. Dressing percentage

2.) How many total goat and lamb wethers are born in the United States each year?

- a. 0
- b. 10,000
- c. 100,000
- d. 1,000,000

3.) The average weight that was gained by an animal for each day of its life?

- a. Average daily gain (ADG)
- b. Weight gain
- c. Weight per day of age (WDA)
- d. Feed per pound of gain (F/G)

4.) We look at what factors when figuring Yield Grades on Cattle?

- a. Kidney, Pelvic and Heart fat
- b. Ribeye Area
- c. Preliminary YG
- d. All of these

5.) Which of these is the least desirable, lowest quality roughage?

- a. Alfalfa
- b. Timothy
- c. Clover
- d. Fescue

6.) What does EPDs stand for in the livestock industry?

- a. Every Perfect Day
- b. Expected Progeny Differences
- c. Exceptional Pig Duroc
- d. Ewes, Pigs and Dogs

7.) A paragraph describing what to look for when judging a class of livestock is called a(n)?

- a. Scenario
- b. Rhinitis
- c. Problem paragraph
- d. Extra reading

8.) What is the most important thing to provide livestock?

- a. Show Feed
- b. Vitamins
- c. Water
- d. Salt

9.) CAB is an example of a(n)?

- a. Organic
- b. Boxes of meat
- c. Cheap products
- d. Branded Product or niche market

10.) What is the most acceptable weight on market cattle?

- a. 75 – 125
- b. 1250 – 2250
- c. 750 – 925
- d. 1150 - 1375

11.) When would it be recommended to give Farrow Sure B to sows after farrowing?

- a. First 48 hours
- b. 48 days after she is rebred
- c. 3-4 weeks
- d. 4 days

12.) What is most important when selecting breeding animals to be used as replacements?

- a. Color and breed
- b. Structural and reproductive soundness
- c. Bone and foot size
- d. Muscle

13.) Which breed of swine would you select for mothering ability?

- a. Pietran
- b. Hampshire
- c. Duroc
- d. Landrace

14.) What Yield Grade would you expect a beef animal with extra fat cover and light muscled to receive?

- a. 1 or 2
- b. Select
- c. High Choice
- d. 4 or 5

15.) What is the most popular production sheep in the state of Kentucky?

- a. Katahdin
- b. Texel
- c. Merino
- d. Finn

16.) What is the common dressing percent for sheep?

- a. 50
- b. 60
- c. 70
- d. 80

17.) At a show you might use which of the following?

- a. Brush
- b. Blower
- c. Soap
- d. All of the above

18.) On average how many pounds of grain does it take to get one pound of gain on a market swine?

- a. $\frac{1}{2}$ - 1
- b. 2.5 - 3
- c. 6 - 7
- d. 10

19.) Corn Distillers Dried Grain W/ Solubles is considered a(n)?

- a. Vitamin
- b. Protein
- c. Mineral
- d. Oil

20.) What mineral should not be included in sheep diets?

- a. Phosphorous
- b. Copper
- c. Water
- d. Salt

21.) Which of these is a ruminant?

- a. Cow
- b. Ram
- c. Buck
- d. All of these

22.) What is the gestation length in swine?

- a. 114 days
- b. 150 days
- c. 244 days
- d. 283 days

23.) The female reproductive organ where the embryo develops is called the _____?

- a. Ovary
- b. Oviduct
- c. Cervix
- d. Uterus

24.) Where is the hormone testosterone produced?

- a. Testicle
- b. Ovary
- c. Brain
- d. Pancreas

25.) The Kentucky Department of Ag is located in?

- a. Bowling Green
- b. Lexington
- c. Richmond
- d. Frankfort

Name _____ Contestant # _____ County _____

Senior Quiz – 2019

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1.) What is the proportion (percentage) of an animal's carcass weight relative to its live weight?

- a. Shrink
- b. Dressing loss
- c. Break even cost
- d. Dressing percentage

2.) How many total goat and lamb wethers are born in the United States each year?

- a. 0
- b. 10,000
- c. 100,000
- d. 1,000,000

3.) The average weight that was gained by an animal for each day of its life?

- a. Average daily gain (ADG)
- b. Weight gain
- c. Weight per day of age (WDA)
- d. Feed per pound of gain (F/G)

4.) We look at what factors when figuring Yield Grades on Cattle?

- a. Kidney, Pelvic and Heart fat
- b. Ribeye Area
- c. Preliminary YG
- d. All of these

5.) Which of these is the least desirable, lowest quality roughage?

- a. Alfalfa
- b. Timothy
- c. Clover
- d. Fescue

6.) What does EPDs stand for in the livestock industry?

- a. Every Perfect Day
- b. Expected Progeny Differences
- c. Exceptional Pig Duroc
- d. Ewes, Pigs and Dogs

7.) A paragraph describing what to look for when judging a class of livestock is called a(n)?

- a. Scenario
- b. Rhinitis
- c. Problem paragraph
- d. Extra reading

8.) What is the most important thing to provide livestock?

- a. Show Feed
- b. Vitamins
- c. Water
- d. Salt

- 9.) CAB is an example of a(n)?
- a. Organic
 - b. Boxes of meat
 - c. Cheap products
 - d. Branded Product or niche market
- 10.) What is the most acceptable weight on market cattle?
- a. 75 – 125
 - b. 1250 – 2250
 - c. 750 – 925
 - d. 1150 - 1375
- 11.) When would it be recommended to give Farrow Sure B to sows after farrowing?
- a. First 48 hours
 - b. 48 days after she is rebred
 - c. 3-4 weeks
 - d. 4 days
- 12.) What is most important when selecting breeding animals to be used as replacements?
- a. Color and breed
 - b. Structural and reproductive soundness
 - c. Bone and foot size
 - d. Muscle
- 13.) Which breed of swine would you select for mothering ability?
- a. Pietran
 - b. Hampshire
 - c. Duroc
 - d. Landrace
- 14.) What Yield Grade would you expect a beef animal with extra fat cover and light muscled to receive?
- a. 1 or 2
 - b. Select
 - c. High Choice
 - d. 4 or 5
- 15.) What is the most popular production sheep in the state of Kentucky?
- a. Katahdin
 - b. Texel
 - c. Merino
 - d. Finn
- 16.) What is the common dressing percent for sheep?
- a. 50
 - b. 60
 - c. 70
 - d. 80
- 17.) At a show you might use which of the following?
- a. Brush
 - b. Blower
 - c. Soap
 - d. All of the above

- 18.) On average how many pounds of grain does it take to get one pound of gain on a market swine?
- a. $\frac{1}{2}$ - 1
 - b. 2.5 - 3
 - c. 6 - 7
 - d. 10
- 19.) Corn Distillers Dried Grain W/ Solubles is considered a(n)?
- a. Vitamin
 - b. Protein
 - c. Mineral
 - d. Oil
- 20.) What mineral should not be included in sheep diets?
- a. Phosphorous
 - b. Copper
 - c. Water
 - d. Salt
- 21.) Which of these is a ruminant?
- a. Cow
 - b. Ram
 - c. Buck
 - d. All of these
- 22.) What is the gestation length in swine?
- a. 114 days
 - b. 150 days
 - c. 244 days
 - d. 283 days
- 23.) The female reproductive organ where the embryo develops is called the _____?
- a. Ovary
 - b. Oviduct
 - c. Cervix
 - d. Uterus
- 24.) Where is the hormone testosterone produced?
- a. Testicle
 - b. Ovary
 - c. Brain
 - d. Pancreas
- 25.) The Kentucky Department of Ag is located in?
- a. Bowling Green
 - b. Lexington
 - c. Richmond
 - d. Frankfort

Senior Retail Meat Judging Class 1 – 2019

Name _____ Contestant # _____ County _____

Placing is worth a possible 50 points

Contestant Number _____	
Placing Score _____	
<i>University of Kentucky College of Agriculture Animal Sciences Department</i>	
Contestant's Name _____ _____	
Address _____ _____	
County _____	
Class: <u>1: Ribeyes</u>	

A	1 2 3 4	_____
B	1 2 4 3	_____
C	1 3 2 4	_____
D	1 3 4 2	_____
E	1 4 2 3	_____
F	1 4 3 2	_____
G	2 1 3 4	_____
H	2 1 4 3	_____
I	2 3 1 4	_____
J	2 3 4 1	_____
K	2 4 1 3	_____
L	2 4 3 1	_____
M	3 1 2 4	_____
N	3 1 4 2	_____
O	3 2 1 4	_____
P	3 2 4 1	_____
Q	3 4 1 2	_____
R	3 4 2 1	_____
S	4 1 2 3	_____
T	4 1 3 2	_____
U	4 2 1 3	_____
V	4 2 3 1	_____
W	4 3 1 2	_____
X	4 3 2 1	_____

Senior Retail Meat Judging Class 1 – 2019

KEY

2-3-4-1

Cuts: 3-2-3

Placing is worth a possible 50 points

Contestant Number _____

Placing Score _____

*University of Kentucky
College of Agriculture
Animal Sciences Department*

Contestant's Name

Address

County

Class 1: Ribeyes

A	1 2 3 4	34
B	1 2 4 3	32
C	1 3 2 4	31
D	1 3 4 2	26
E	1 4 2 3	27
F	1 4 3 2	24
G	2 1 3 4	42
H	2 1 4 3	40
I	2 3 1 4	47
J	2 3 4 1	50
K	2 4 1 3	43
L	2 4 3 1	48
M	3 1 2 4	36
N	3 1 4 2	31
O	3 2 1 4	44
P	3 2 4 1	47
Q	3 4 1 2	34
R	3 4 2 1	42
S	4 1 2 3	30
T	4 1 3 2	27
U	4 2 1 3	38
V	4 2 3 1	43
W	4 3 1 2	32
X	4 3 2 1	40

Senior Retail Meat Judging Class 2 – 2019

Name _____ Contestant # _____ County _____

(Placing is worth a possible 50 points and each of the 5 questions is worth 10 points for 50 possible points – Grand Total of 100 possible points)

<p>Contestant Number _____</p> <p>Placing Score _____</p> <p><i>University of Kentucky College of Agriculture Animal Sciences Department</i></p> <p>Contestant's Name _____ _____</p> <p>Address _____ _____</p> <p>County _____</p> <p><u>Class 2: Pork Chops</u></p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>A</td><td>1 2 3 4</td><td></td></tr> <tr><td>B</td><td>1 2 4 3</td><td></td></tr> <tr><td>C</td><td>1 3 2 4</td><td></td></tr> <tr><td>D</td><td>1 3 4 2</td><td></td></tr> <tr><td>E</td><td>1 4 2 3</td><td></td></tr> <tr><td>F</td><td>1 4 3 2</td><td></td></tr> <tr><td>G</td><td>2 1 3 4</td><td></td></tr> <tr><td>H</td><td>2 1 4 3</td><td></td></tr> <tr><td>I</td><td>2 3 1 4</td><td></td></tr> <tr><td>J</td><td>2 3 4 1</td><td></td></tr> <tr><td>K</td><td>2 4 1 3</td><td></td></tr> <tr><td>L</td><td>2 4 3 1</td><td></td></tr> <tr><td>M</td><td>3 1 2 4</td><td></td></tr> <tr><td>N</td><td>3 1 4 2</td><td></td></tr> <tr><td>O</td><td>3 2 1 4</td><td></td></tr> <tr><td>P</td><td>3 2 4 1</td><td></td></tr> <tr><td>Q</td><td>3 4 1 2</td><td></td></tr> <tr><td>R</td><td>3 4 2 1</td><td></td></tr> <tr><td>S</td><td>4 1 2 3</td><td></td></tr> <tr><td>T</td><td>4 1 3 2</td><td></td></tr> <tr><td>U</td><td>4 2 1 3</td><td></td></tr> <tr><td>V</td><td>4 2 3 1</td><td></td></tr> <tr><td>W</td><td>4 3 1 2</td><td></td></tr> <tr><td>X</td><td>4 3 2 1</td><td></td></tr> </table>	A	1 2 3 4		B	1 2 4 3		C	1 3 2 4		D	1 3 4 2		E	1 4 2 3		F	1 4 3 2		G	2 1 3 4		H	2 1 4 3		I	2 3 1 4		J	2 3 4 1		K	2 4 1 3		L	2 4 3 1		M	3 1 2 4		N	3 1 4 2		O	3 2 1 4		P	3 2 4 1		Q	3 4 1 2		R	3 4 2 1		S	4 1 2 3		T	4 1 3 2		U	4 2 1 3		V	4 2 3 1		W	4 3 1 2		X	4 3 2 1	
A	1 2 3 4																																																																								
B	1 2 4 3																																																																								
C	1 3 2 4																																																																								
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V	4 2 3 1																																																																								
W	4 3 1 2																																																																								
X	4 3 2 1																																																																								

[Turn over and answer questions on the back of this sheet]

QUESTIONS

- 1) Which chop has the most exposed lean? _____
- 2) Which chop has the least amount of marbling and most pale color? _____
- 3) Which chop has the most bone to lean ratio? _____
- 4) Between 1 and 3, which chop has the larger tenderloin? _____
- 5) Which chop has the least amount of tail? _____

Senior Retail Meat Judging Class 2 – 2019

KEY

4-3-2-1

Cuts: 5-2-2

(Placing is worth a possible 50 points and each of the 5 questions is worth 10 points for 50 possible points – Grand Total of 100 possible points)

Contestant Number _____	
Placing Score _____	
<i>University of Kentucky College of Agriculture Animal Sciences Department</i>	
Contestant's Name _____ _____	
Address _____ _____	
County _____	
<u>Class 2: Pork Chops</u>	

A	1 2 3 4	21
B	1 2 4 3	26
C	1 3 2 4	23
D	1 3 4 2	30
E	1 4 2 3	33
F	1 4 3 2	35
G	2 1 3 4	23
H	2 1 4 3	28
I	2 3 1 4	27
J	2 3 4 1	36
K	2 4 1 3	37
L	2 4 3 1	41
M	3 1 2 4	27
N	3 1 4 2	34
O	3 2 1 4	29
P	3 2 4 1	38
Q	3 4 1 2	43
R	3 4 2 1	45
S	4 1 2 3	42
T	4 1 3 2	44
U	4 2 1 3	44
V	4 2 3 1	48
W	4 3 1 2	48
X	4 3 2 1	50

[Turn over and answer questions on the back of this sheet]

QUESTIONS

- 1) Which chop has the most exposed lean? 4
- 2) Which chop has the least amount of marbling and most pale color? 1
- 3) Which chop has the most bone to lean ratio? 2
- 4) Between 1 and 3, which chop has the larger tenderloin? 3
- 5) Which chop has the least amount of tail? 4

Senior Hay Judging Class - 2019

Name _____ Contestant # _____ County _____

(50 points possible)

Contestant Number _____		
Placing Score _____		
<i>University of Kentucky</i>		
<i>College of Agriculture</i>		
<i>Animal Sciences Department</i>		
Contestant's Name	A	1 2 3 4
_____	B	1 2 4 3
_____	C	1 3 2 4
	D	1 3 4 2
	E	1 4 2 3
	F	1 4 3 2
	G	2 1 3 4
Address	H	2 1 4 3
_____	I	2 3 1 4
_____	J	2 3 4 1
	K	2 4 1 3
	L	2 4 3 1
	M	3 1 2 4
County	N	3 1 4 2
_____	O	3 2 1 4
	P	3 2 4 1
	Q	3 4 1 2
Class	R	3 4 2 1
<u>Hay Judging Class</u>	S	4 1 2 3
	T	4 1 3 2
	U	4 2 1 3
	V	4 2 3 1
	W	4 3 1 2
	X	4 3 2 1

[Turn over for Scenario and Forage Analysis Information]

Scenario:

You have a dozen Doe kids that you will be keeping to make replacements. Even though you supplement with a pound of grain per head per day, your hay will be the main source of protein and nutrients since you dry lot your goat herd 80 percent of the year. Since you are focused on selling show projects you feel it is very important to provide a quality feed source to your project.

Forage Analysis

	Hay Lot #1 2016 Late Cut Grass Mixture	Hay Lot #2 2018 2nd Cutting Orchardgrass	Hay Lot #3 2016 Late Cut Grass Mixture	Hay Lot # 4 2018 2nd Cutting Orchardgrass
Dry matter	88.9%	88.6%	88.9%	88.6%
Crude protein	7.4%	12.7%	8.5%	12.6%
Acid detergent fiber (ADF)	49.9%	44.6%	49.7%	44.8%
Neutral detergent fiber (NDF)	69.2%	67.5%	69.4%	67.3%
Total digestible nutrients (TDN)	50.0%	65.5%	52.0%	64.6%
Price per ton	\$80	\$105	\$85	\$110

Senior Hay Judging Class – 2019

Official: 2-4-3-1 Cuts: 3-6-2

(50 points possible)

Contestant Number _____			
Placing Score _____			
<i>University of Kentucky College of Agriculture Animal Sciences Department</i>			
Contestant's Name _____ _____			
Address _____ _____			
County _____			
Class <u>Hay Judging Class</u>			
	A	1 2 3 4	23
	B	1 2 4 3	29
	C	1 3 2 4	14
	D	1 3 4 2	11
	E	1 4 2 3	26
	F	1 4 3 2	17
	G	2 1 3 4	34
	H	2 1 4 3	40
	I	2 3 1 4	36
	J	2 3 4 1	44
	K	2 4 1 3	48
	L	2 4 3 1	50
	M	3 1 2 4	16
	N	3 1 4 2	13
	O	3 2 1 4	27
	P	3 2 4 1	35
	Q	3 4 1 2	21
	R	3 4 2 1	32
	S	4 1 2 3	34
	T	4 1 3 2	25
	U	4 2 1 3	45
	V	4 2 3 1	47
	W	4 3 1 2	27
	X	4 3 2 1	38

[Turn over for Scenario and Forage Analysis Information]

For Animal Use only BOVI-SHIELD® GOLD 5
Reg. No. 3675 Act 36/1947
Namibia reg. no. NSR 1339

For use by or under the control of a veterinarian only INDICATIONS:

Bovi-Shield® GOLD 5 is recommended for vaccination of healthy cattle as an aid in preventing disease caused by infectious bovine rhinotracheitis virus (IBRV), bovine viral diarrhoea virus (BVD Type 1 and 2), parainfluenza₃ virus (PI₃) and bovine respiratory syncytial virus (BRSV). **Bovi-Shield® GOLD 5** may be administered to pregnant cattle provided they were vaccinated with Bovi-Shield® FP4+L5 vaccine within the past 12 months. It may also be administered to calves nursing pregnant cows provided their dams were vaccinated within the past 12 months with Bovi-Shield® FP 4+L5.

STORAGE INSTRUCTIONS:

The vaccine should be stored at temperatures between 2°C and 7°C, and must be protected from light. Do not freeze.

COMPOSITION:

Bovi-Shield® GOLD 5 is a freeze-dried preparation of modified live virus strains of IBR, BVD (Type 1 and 2), PI₃ and BRS viruses, plus a sterile diluent used to re-hydrate the freeze-dried vaccine. Viral antigens are propagated on established cell lines.

WARNING:

Do not vaccinate within 21 days before slaughter. Keep out of reach of children and uninformed persons.

For veterinary use only.

Contains gentamicin as a preservative.

Do not use in pregnant cows, abortion can result, unless they were vaccinated strictly according to the instructions. As with many vaccines, anaphylaxis may occur after use.

This vaccine has been shown to be efficacious in healthy animals. A protective immune response may not be elicited:

- if animals are incubating an infectious disease,
- are malnourished or parasitized,
- are stressed due to shipment or environmental conditions,
- are otherwise immuno-compromised,
- or the vaccine is not administered in accordance with label directions.

Although this vaccine has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder.

PRECAUTIONS:

Do not use in pregnant cows, unless they were vaccinated with Bovi-Shield® FP 4+L5 within the past 12 months.

Use the entire contents when first opened.

Do not use in calves nursing pregnant cows unless their dams were vaccinated within the past 12 months with Bovi-Shield® FP 4+L5. Sterilized syringes and needles should be used to administer the vaccine. Do not sterilize with chemicals because traces of disinfectant may inactivate the vaccine. Burn containers and all unused contents. If vaccination results in anaphylaxis, initial antidote of adrenalin, or equivalent is recommended, and should be followed with appropriate supportive therapy.

DOSAGE AND DIRECTIONS FOR USE:

Vaccination of healthy cattle is recommended.

Aseptically rehydrate the freeze-dried vaccine with the sterile diluent provided, shake well and administer 2 ml intramuscularly, in the muscular region of the neck.

Primary Vaccination: Administer a single 2 ml dose to healthy cattle, followed by a second dose of **Bovi-Shield® GOLD 5**, 3–4 weeks later.

Revaccination: Annual revaccination with a single dose is recommended.

PRESENTATION:

Bovi-Shield® GOLD 5 is marketed in clear, sterile, sealed, 10 and 50 dose vials. A 10 dose vial is rehydrated with 20 ml sterile diluent and a 50 dose vial with 100 ml sterile diluent.

REGISTRATION HOLDER:

Pfizer Laboratories (Pty) Ltd Registration No.
1954/000781/07 85 Bute Lane, Sandton, 2196
P O Box 783720, Sandton, 2146
For more information phone: 011- 3206000

Bovi-Shield® Gold and the Pfizer Logo are registered trademark

EXCENEL[®] RTU STERILE SUSPENSION

by Zoetis

brand of ceftiofur hydrochloride sterile suspension

For intramuscular and subcutaneous use in cattle and intramuscular use in swine. This product may be used in lactating dairy cattle.

CAUTION: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION

EXCENEL RTU Sterile Suspension is a ready to use formulation that contains the hydrochloride salt of ceftiofur, which is a broad spectrum cephalosporin antibiotic.

Each mL of this ready-to-use sterile suspension contains ceftiofur hydrochloride equivalent to 50 mg ceftiofur, 0.50 mg phospholipon, 1.5 mg sorbitan monooleate, 2.25 mg sterile water for injection, and cottonseed oil.

Structure:

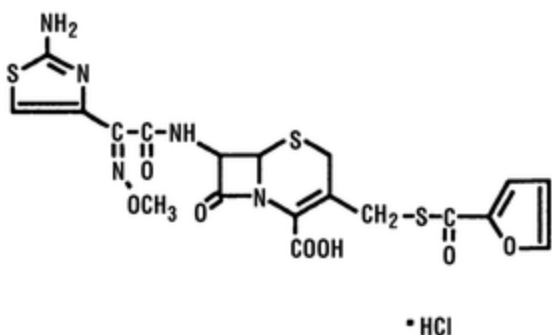


Figure 1.

Chemical Name of Ceftiofur Hydrochloride: 5-Thia-1-azabicyclo[4,2,0]oct-2-ene-2-carboxylic acid, 7-[[[(2-amino-4-thiazolyl) (methoxyimino)-acetyl]amino]-3-[[[(2-furanyl-carbonyl) thio] methyl]-8-oxo-,hydrochloride salt [6R-[6 α ,7 β (Z)]]-

INDICATIONS

Swine: EXCENEL RTU Sterile Suspension is indicated for treatment/control of swine bacterial respiratory disease (swine bacterial pneumonia) associated with *Actinobacillus* (*Haemophilus*) *pleuropneumoniae*, *Pasteurella multocida*, *Salmonella choleraesuis* and *Streptococcus suis*.

Cattle: EXCENEL RTU Sterile Suspension is indicated for treatment of the following bacterial diseases:

- Bovine respiratory disease (BRD, shipping fever, pneumonia) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni*.
- Acute bovine interdigital necrobacillosis (foot rot, pododermatitis) associated with *Fusobacterium necrophorum* and *Bacteroides melaninogenicus*.
- Acute metritis (0 to 14 days post-partum) associated with bacterial organisms susceptible to ceftiofur.

DOSAGE AND ADMINISTRATION

Shake well before using.

Swine: Administer intramuscularly at a dosage of 1.36 to 2.27 mg ceftiofur equivalents/lb (3.0 to 5.0 mg/kg) BW (1 mL of sterile suspension per 22 to 37 lb BW). Treatment should be repeated at 24 h intervals for a total of three consecutive days.

Cattle:

- For bovine respiratory disease and acute interdigital necrobacillosis: administer by intramuscular or subcutaneous administration at the dosage of 0.5 to 1.0 mg ceftiofur equivalents/lb (1.1 to 2.2 mg/kg) BW (1 to 2 mL sterile suspension per 100 lb BW). Administer daily at 24 h intervals for a total of three consecutive days. Additional treatments may be administered on Days 4 and 5 for animals which do not show a satisfactory response (not recovered) after the initial three treatments.

In addition, for BRD only, administer intramuscularly or subcutaneously 1.0 mg ceftiofur equivalents/lb (2.2 mg/kg) BW every other day on Days 1 and 3 (48 h interval). Do not inject more than 15 mL per injection site.

Selection of dosage level (0.5 to 1.0 mg/lb) and regimen/duration (daily or every other day for BRD only) should be based on an assessment of the severity of disease, pathogen susceptibility and clinical response.

- For acute post-partum metritis: administer by intramuscular or subcutaneous administration at the dosage of 1.0 mg ceftiofur equivalents/lb (2.2 mg/kg) BW (2 mL sterile suspension per 100 lb BW). Administer at 24 h intervals for five consecutive days. Do not inject more than 15 mL per injection site.

CONTRAINDICATIONS

As with all drugs, the use of EXCENEL RTU Sterile Suspension is contraindicated in animals previously found to be hypersensitive to the drug.

WARNINGS

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN.

Penicillins and cephalosporins can cause allergic reactions in sensitized individuals. Topical exposures to such antimicrobials, including ceftiofur, may elicit mild to severe allergic reactions in some individuals. Repeated or prolonged exposure may lead to sensitization. Avoid direct contact of the product with the skin, eyes, mouth, and clothing.

Persons with a known hypersensitivity to penicillin or cephalosporins should avoid exposure to this product.

In case of accidental eye exposure, flush with water for 15 minutes. In case of accidental skin exposure, wash with soap and water. Remove contaminated clothing. If allergic reaction occurs (e.g., skin rash, hives, difficult breathing), seek medical attention.

The material safety data sheet contains more detailed occupational safety information. To obtain a material safety data sheet (MSDS) please call 1-800-733-5500. To report any adverse event please call 1-800-366-5288.

RESIDUE WARNINGS:

Swine: When used according to label indications, dosage, and route of administration, treated swine must not be slaughtered for 4 days following the last treatment. Use of dosages in excess of those indicated or by unapproved routes of administration may result in illegal residues in edible tissues.

Cattle: When used according to label indications, dosage and route of administration, treated cattle must not be slaughtered for 3 days following the last treatment. When used according to label indications, dosage and route of administration, a milk discard time is not required. Uses of dosages in excess of those indicated or by unapproved routes of administration, such as intramammary, may result in illegal residues in edible tissues and/or milk. A withdrawal period has not been established in pre-ruminating calves. Do not use in calves to be processed for veal.

PRECAUTIONS

The effects of ceftiofur on cattle and swine reproductive performance, pregnancy, and lactation have not been determined.

Swine: Areas of discoloration associated with the injection site at time periods of 11 days or less may result in trim-out of edible tissues at slaughter. The safety of ceftiofur has not been demonstrated for pregnant swine or swine intended for breeding.

Cattle: Following intramuscular or subcutaneous administration in the neck, areas of discoloration at the site may persist beyond 11 days resulting in trim loss of edible tissues at slaughter. Following intramuscular administration in the rear leg, areas of discoloration at the injection site may persist beyond 28 days resulting in trim loss of edible tissues at slaughter.

County_____

Team Members _____

Senior Team Quality Assurance Exercise – 2019

You are a beef producer and operate a 500-head feedlot that typically feeds calves from about 600 pounds to finished weight for market. As a practical way to keep track of steers that have been injured or treated for illness, you sort them into one pen that you keep designated as a hospital or “sick” pen. There are five (5) steers in the sick pen that have reached finish weight and have fully recovered their problems. You want to send as many of these steers as possible to market on Monday, February 18, 2019, and need to make sure any withdrawal times are over. Using the five (5) medication inserts provided, answer the questions below and finish filling in the table of treatment records on the reverse side of this page. Once the table is filled in, list the steers that can be sold tomorrow and those that should be held until a later date. A calendar is provided for your use as well. (Each answer is worth 7 points each for a total of 210 points)

NOTES ON TREATMENTS:

- Assume you accurately followed the directions on the medication insert.
- Assume the treatment date given in the treatment records is the last date of treatment
- If a range of recommended dosage is given on the medication insert, assume you gave the highest dosage recommended

- 1) Which medication is a modified live virus? _____
- 2) When giving Tylan 200, what’s the largest amount that should be administered in one site? ____mL
- 3) Which of the medications should not be given to swine? _____
- 4) Which of the medications is approved for use in a 3-yr old lactating dairy cow? _____
- 5) Which of the medications has to be rehydrated before use? _____

[OVER]

TREATMENT RECORD

Treatment Date & Time	Steer Treated (Tag #)	Steer Weight	Condition Being Treated	Medication Given	Route Given ^a	Amount Given	Required Withdrawal Period (days)	Date & Time Withdrawal Complete
Jan. 30, 2019 9:00 a.m.	# 27	1200 lbs	Pneumonia	Tylan 200				
Dec. 2, 2018 10:00 a.m.	# 94	1210 lbs	IBRV	Bovi-Shield Gold 5				
Dec. 24, 2018 2:30 p.m.	# 75	1325 lbs	Bovine Respiratory Syncytial Virus	Bovi-Shield Gold 5				
Jan. 14, 2019 8:00 a.m.	# 16	1250 lbs	Foot Rot	Draxxin				
Feb. 16, 2019 7:00 a.m.	# 33	1150 lbs	Bovine Respiratory Disease	Excenel				

Intramuscular = IM
 Subcutaneous = SC
 Intravenous = IV
 Topical = T
 Added to feed = F

Example: Feb. 16, 2019 9 a.m.

Steers That Can be Sold Tomorrow

Steers to Hold Until a Later Date

CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
December 2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	January 1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	February 1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	March 1	2

KEY

Senior Team Quality Assurance Exercise – 2019

You are a beef producer and operate a 500-head feedlot that typically feeds calves from about 600 pounds to finished weight for market. As a practical way to keep track of steers that have been injured or treated for illness, you sort them into one pen that you keep designated as a hospital or “sick” pen. There are five (5) steers in the sick pen that have reached finish weight and have fully recovered their problems. You want to send as many of these steers as possible to market on Monday, February 18, 2019, and need to make sure any withdrawal times are over. Using the five (5) medication inserts provided, answer the questions below and finish filling in the table of treatment records on the reverse side of this page. Once the table is filled in, list the steers that can be sold tomorrow and those that should be held until a later date. A calendar is provided for your use as well. (Each answer is worth 7 points each for a total of 210 points)

NOTES ON TREATMENTS:

- Assume you accurately followed the directions on the medication insert.
- Assume the treatment date given in the treatment records is the last date of treatment
- If a range of recommended dosage is given on the medication insert, assume you gave the highest dosage recommended

- 1) Which medication is a modified live virus? BOVI-SHIELD GOLD 5
- 2) When giving Tylan 200, what’s the largest amount that should be administered in one site? 10 mL
- 3) Which of the medications should not be given to swine? BOVI-SHIELD GOLD 5
- 4) Which of the medications is approved for use in a 3-yr old lactating dairy cow? EXCENEL
- 5) Which of the medications has to be rehydrated before use? BOVI-SHIELD GOLD 5

[OVER]

TREATMENT RECORD

Treatment Date & Time	Steer Treated (Tag #)	Steer Weight	Condition Being Treated	Medication Given	Route Given ^a	Amount Given	Required Withdrawal Period (days)	Date & Time Withdrawal Complete
Jan. 30, 2019 9:00 a.m.	# 27	1200 lbs	Pneumonia	Tylan 200	IM	48 mL	21 days	Feb. 20, 2019 9:00 a.m.
Dec. 2, 2018 10:00 a.m.	# 94	1210 lbs	IBRV	Bovi-Shield Gold 5	IM	2 mL	21 days	Dec. 23, 2018 10:00 a.m.
Dec. 24, 2018 2:30 p.m.	# 75	1325 lbs	Bovine Respiratory Syncytial Virus	Bovi-Shield Gold 5	IM	2 mL	21 days	Jan. 14, 2019 2:30 p.m.
Jan. 14, 2019 8:00 a.m.	# 16	1250 lbs	Foot Rot	Draxxin	SC	13.75 mL Will Accept 13.5 - 14 mL	18 days	Feb. 1, 2019 8:00 a.m.
Feb. 16, 2019 7:00 a.m.	# 33	1150 lbs	Bovine Respiratory Disease	Excenel	IM and SC	23 mL	3 days	Feb. 19, 2019 7:00 a.m.

Intramuscular = IM
 Subcutaneous = SC
 Intravenous = IV
 Topical = T
 Added to feed = F

Example: Feb. 16, 2019 9 a.m.

Steers That Can be Sold Tomorrow

94

75

16

Steers to Hold Until a Later Date

27

33

CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
December 2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	March 1	2

Tylan® 200

Injection

250 mL™

Tylosin

For Use In Cattle and Swine Only

200 mg per mL

An Antibiotic

Indications: In Beef Cattle and Non-lactating Dairy Cattle, Tylan 200 Injection is indicated for use in the treatment of bovine respiratory complex (shipping fever, pneumonia) usually associated with *Pasteurella multocida* and *Arcanobacterium pyogenes*; foot rot (necrotic pododermatitis) and calf diphtheria caused by *Fusobacterium necrophorum* and metritis caused by *Arcanobacterium pyogenes*.

In Swine, Tylan 200 Injection is indicated for use in the treatment of swine arthritis caused by *Mycoplasma hyosynoviae*; swine pneumonia caused by *Pasteurella* spp.; swine erysipelas caused by *Erysipelothrix rhusiopathiae*; swine dysentery associated with *Treponema hyodysenteriae* when followed by appropriate medication in the drinking water and/or feed.

Each mL contains 200 mg of tylosin activity (as tylosin base) in 50 percent propylene glycol with 4 percent benzyl alcohol and water for injection.

ADMINISTRATION AND DOSAGE:

Tylan 200 Injection is administered intramuscularly.

BEEF CATTLE AND NON-LACTATING DAIRY CATTLE – Inject intramuscularly 8 mg per pound of body weight one time daily (1 mL per 25 pounds). Treatment should be continued 24 hours following remission of disease signs, not to exceed 5 days. Do not inject more than 10 mL per site.

SWINE – Inject intramuscularly 4 mg per pound of body weight (1 mL per 50 pounds) twice daily. Treatment should be continued 24 hours following remission of disease signs, not to exceed 3 days. Do not inject more than 5 mL per site.

Read accompanying directions fully before use.

CAUTION:

Do not mix Tylan 200 Injection with other injectable solutions as this may cause a precipitation of the active ingredients.

WARNINGS:

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN.

Adverse reactions, including shock and death may result from overdosage in baby pigs.

Do not attempt injection into pigs weighing less than 25 pounds (0.5 mL) with the common syringe. It is recommended that Tylan 50 Injection be used in pigs weighing less than 25 pounds.

Do not administer to horses or other equines. Injection of tylosin in equines has been fatal.

RESIDUE WARNING: Swine:

Swine intended for human consumption must not be slaughtered within 14 days of the last use of this drug product.

RESIDUE WARNING: Cattle:

Cattle intended for human consumption must not be slaughtered within 21 days of the last use of this drug product. This drug product is not approved for use in female dairy cattle 20 months of age or older, including dry dairy cows. Use in these cattle may cause drug residues in milk and/or in calves born to these cows. This product is not approved for use in calves intended to be processed for veal. A withdrawal period has not been established in pre-ruminating calves.

If tylosin medicated drinking water is used as a follow-up treatment for swine dysentery, the animal should thereafter receive feed containing 40 to 100 grams of tylosin per ton for 2 weeks to assure depletion of tissue residues.

Store at or below 25°C (77°F).

Elanco, Tylan and the diagonal bar are trademarks owned or licensed by Eli Lilly and Company, its subsidiaries or affiliates.

Restricted Drug (California) - Use Only as Directed.

NADA 12-965, Approved by FDA

To report adverse effects, access medical information, or obtain additional product information, call 1-800-428-4441.

Manufactured for:

Elanco Animal Health
A Division of Eli Lilly and Company
Indianapolis, IN 46285, USA

Tylan® 200

Inyectable

250 mL™

(tilosina)

Para uso exclusivo en ganado vacuno y cerdos

200 mg por ml

Un antibiótico

Indicaciones: En ganado vacuno y vacas lecheras no lactantes, Tylan 200 inyectable se indica para el tratamiento del complejo respiratorio bovino (fiebre de embarque, neumonía), generalmente asociado con *Pasteurella multocida* y *Arcanobacterium pyogenes*, piétin (pododermatitis necrótica), difteria de los terneros provocada por *Fusobacterium necrophorum* y metritis provocada por *Arcanobacterium pyogenes*.

En cerdos, Tylan 200 inyectable se indica para el tratamiento de artritis en cerdos provocada por *Mycoplasma hyosynoviae*, neumonía porcina causada por *Pasteurella* spp., erisipelas porcinas provocadas por *Erysipelothrix rhusiopathiae*, disentería porcina asociada con *Treponema hyodysenteriae* cuando es tratada con el medicamento apropiado a través del alimento y/o el agua para beber.

Cada ml contiene 200 mg de actividad de tilosina (como tilosina base) en propilenglicol al 50 por ciento, alcohol bencílico al 4 por ciento y agua para inyección.

POSOLÓGIA Y ADMINISTRACIÓN:

Tylan 200 inyectable se administra por vía intramuscular.

GANADO VACUNO Y VACAS LECHERAS NO LACTANTES – Inyectar por vía intramuscular 8 mg por libra de peso corporal una vez al día (1 ml cada 25 libras). El tratamiento debe continuarse durante 24 horas luego de la remisión de los signos de la enfermedad sin extenderse más de 5 días. No aplicar más de 10 ml por lugar de inyección.

CERDOS – Inyectar por vía intramuscular 4 mg por libra de peso corporal (1 ml cada 50 libras) dos veces al día. El tratamiento debe continuarse durante 24 horas luego de la remisión de los signos de la enfermedad sin extenderse más de 3 días. No aplicar más de 5 ml por lugar de inyección.

Leer todas las instrucciones adjuntas antes de usar.

PRECAUCIÓN:

No mezclar la inyección Tylan 200 con otras soluciones inyectables ya que esto puede ocasionar la precipitación de los principios activos.

ADVERTENCIAS:

ESTE PRODUCTO NO DEBE UTILIZARSE EN SERES HUMANOS. MANTENER FUERA DEL ALCANCE DE LOS NIÑOS.

Pueden ocurrir reacciones adversas, incluidos shock y muerte, en caso de sobredosis en crías de cerdos. No administrar la inyección a cerdos que pesen menos de 25 libras (0.5 ml) con la jeringa común. Se recomienda usar la inyección Tylan 50 en cerdos que pesen menos de 25 libras. No administrar a caballos u otros equinos. La inyección de tilosina en equinos ha resultado mortal.

ADVERTENCIA ACERCA DE RESIDUOS: Ganado porcino:

el ganado porcino previsto para consumo humano no se debe faenar durante los 14 días posteriores al último uso de este producto farmacológico.

ADVERTENCIA ACERCA DE RESIDUOS: Ganado bovino:

el ganado bovino previsto para consumo humano no se debe faenar durante los 21 días posteriores al último uso de este producto farmacológico. Este producto farmacológico no está aprobado para su uso en ganado bovino lechero hembra de 20 meses de edad o más, incluidas las vacas lecheras secas. El uso en este ganado bovino puede producir residuos farmacológicos en la leche y/o en los terneros nacidos de estas vacas. Este producto no está aprobado para el uso en terneros que se procesarán para carne de ternera. No se ha establecido un período de retiro del fármaco en terneros prerrumiantes.

Si se suministra agua para beber con tilosina como tratamiento de seguimiento para la disentería porcina, el animal debe recibir posteriormente alimento que contenga entre 40 y 100 gramos de tilosina por tonelada durante 2 semanas para garantizar la depleción de los residuos de tejidos.

Almacenar a 25 °C (77 °F) o menos.

Elanco, Tylan y la barra diagonal son marcas registradas propiedad de o licenciadas a Eli Lilly and Company o sus filiales.

Medicamento restringido (California). Usar únicamente según las instrucciones.

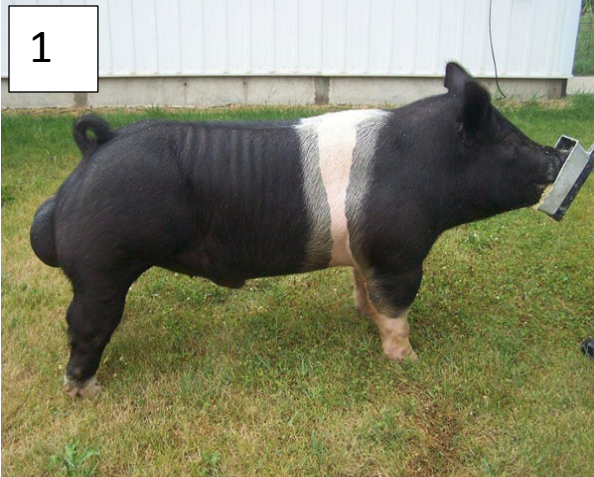
NADA 12-965, Aprobado por la FDA

Para informar efectos adversos, obtener información médica o información adicional sobre el producto, llame al 1-800-428-4441.

Fabricado por:

Elanco Animal Health
Una división de Eli Lilly and Company
Indianapolis, IN 46285, USA

Boar Choices



County _____ **KEY** _____

Team Members _____

Senior Team Breeding Exercise – 2019

You are a genetic advisor for a large scale pork operation in KY/TN. Your job is to select and purchase three boars to go into the company's boar stud. Semen from these three boars will be collected and distributed to breeding units connected to the company. One of the three boars must be a maternal sire and one must be a terminal sire. You have a budget of \$8,000.00 to use to purchase these three boars.

From the terminal side growth and performance is important, while on the maternal side production must improve. These boars must have the structural integrity to survive in the confinement setting.

Please study the data and look over the pictures of the boars and decide who you will select to place in the company boar stud. Your employer also said, that your last choices of boars were over budget and did not produce enough semen to meet the needs of the farm units. Choose wisely, answer the questions below then discuss your choices with the Contest Official. Please include the positives of why you chose the three boars that you did, and the reasons for not choosing at least two of the other boars.

There are 10 questions worth 10 points each for a total of 100 possible points and your discussion with the Contest Official is worth 100 possible points for a grand total of 200 points.

Questions: (Circle Your Answers)

1.) Which Hampshire boar is expressive but round muscled, pinched in his ham/loin and needs more center body?

1 2 3 4 5 **6** 7 8

2.) Which boar would you choose as a maternal sire?

1 2 3 4 5 6 7 **8**

3.) Between the down eared boars, which boar is the smallest testicled?

1 2 3 4 5 6 **7** 8

4.) Between the black belted boars, which boar is wrinkle hided?

1 2 3 4 5 6 7 8

5.) Which boar visually appears to already be the most adapted to confinement?

1 **2** 3 4 5 6 7 8

6.) Which boar does not fit well into the \$8,000 budget?

1 2 3 **4** 5 6 7 8

7.) Which boar appears to be the crossbred?

1 2 3 **4** 5 6 7 8

8.) Which two boars are potential littermates?

1 2 3 4 **5** 6 7 8

9.) Which boar am I describing, tall fronted, frail featured and the smallest footed?

1 2 **3** 4 5 6 7 8

10.) Between the three Duroc boars, which boar is rugged designed, and stout featured?

1 **2** 3 4 5 6 7 8

Boar Prices:

1. \$2,750

5. \$2,500

2. \$1,750

6. \$1,000

3. \$800

7. \$850

4. \$6,500

8. \$3,500

Data on Boars expressed in EPDs:

Boar#	NBA	WTE	DAYS	BF	LBS	SPI	MLI	TSI
1	+0.17	-0.15	-3.52	-0.02	+1.15	110	115	112
2	+0.28	-0.19	-3.6	-0.02	+1.41	109	114	115
3	-0.12	+0.12	-1.9	-0.2	+0.95	102	102	101
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	+0.17	-0.15	-3.52	-0.02	+1.45	110	115	112
6	-0.35	+0.25	+1.5	-0.35	+0.56	92	92	98
7	-0.15	+0.12	-1.8	-0.01	+0.91	101	101	101
8	+0.35	-0.21	-3.65	-0.02	+1.3	111	116	109

County_____

Team Members_____

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1	+0.17	-0.15	-3.52	-0.02	+1.15	110	115	112
2	+0.28	-0.19	-3.6	-0.02	+1.41	109	114	115
3	-0.12	+0.12	-1.9	-0.2	+0.95	102	102	101
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	+0.17	-0.15	-3.52	-0.02	+1.45	110	115	112
6	-0.35	+0.25	+1.5	-0.35	+0.56	92	92	98
7	-0.15	+0.12	-1.8	-0.01	+0.91	101	101	101
8	+0.35	-0.21	-3.65	-0.02	+1.3	111	116	109

Team Name _____ Team Number _____

Team Members _____

2019 Kentucky Skillathon Contest – Senior Team Feeding Activity**10 pts. / question and 100 points for your explanation for 200 point total.**

You have purchased a group of 10 stocker cattle (average weight = 600 lb.) at \$1.50/lb. Your plans are to keep them on grass for 150 days and then sell them to a feedlot. **1. Please answer the questions below. 2. Discuss with the listener what breed of cattle you purchased (your choice of breed), why you purchased that breed and the benefits that breed should have for the feedlot.**

1. What did this group of stockers cost for the entire bunch when purchased?
2. If this group gained 1.8 lbs./day/head while on grass, what would be their weight gain **per head**?
3. What would be the average weight of the cattle, when you sell them to the feedlot?
4. If you sell them to the feedlot for \$1.20/lb., how much would they bring apiece?
5. How much would the entire group bring when sold to the feed yard?
6. What would be your Gross profit?
7. If each calf intakes 5 pounds of loose mineral per month, how many 50 pound bags of mineral will you need for the time you own the cattle?
8. At a cost of \$22.00 per bag for mineral, what will your total mineral cost be?
9. If the cattle gain 3 pound per day for their next owner, how many days will it take them to get to 1260 pound from where they started when purchased by the feedlot?
10. What is the most common Quality Grade of Fat cattle sold in the United States?
Circle one answer.

Prime

Choice

Select

Standard

KEY

Senior Team Feeding

2019 Kentucky Skillathon Contest – Senior Team Feeding Activity

10 pts. / question and 100 points for your explanation for 200 point total.

You have purchased a group of 10 stocker cattle (average weight = 600 lb.) at \$1.50/lb. Your plans are to keep them on grass for 150 days and then sell them to a feedlot. **1. Please answer the questions below. 2. Discuss with the listener what breed of cattle you purchased (your choice of breed), why you purchased that breed and the benefits that breed should have for the feedlot.**

1. What did this group of stockers cost for the entire bunch when purchased?

$$10 \text{ head} \times 600 \text{ lb.} \times \$1.50 = \underline{\$9,000.00}$$

2. If this group gained 1.8 lbs./day/head while on grass, what would be their weight gain **per head**?

$$1.8 \text{ lbs. / day / head} \times 150 \text{ days} = \underline{270 \text{ pounds per calf}}$$

3. What would be the average weight of the cattle, when you sell them to the feedlot?

$$\text{Beginning weight of } 600 \text{ lbs.} + 270 \text{ lbs.} = \underline{870 \text{ pounds}}$$

4. If you sell them to the feedlot for \$1.20/lb., how much would they bring apiece?

$$870 \text{ pounds} \times \$1.20 = \underline{\$1044.00 \text{ per head}}$$

5. How much would the entire group bring when sold to the feed yard?

$$10 \text{ head} \times \$1044.00 = \underline{\$10440.00}$$

6. What would be your Gross profit?

$$\$10440.00 - \$9,000.00 = \underline{\$1,440.00}$$

7. If each calf intakes 5 pounds of loose mineral per month, how many 50 pound bags of mineral will you need for the time you own the cattle?

$$10 \text{ calves} \times 5 \text{ lbs. of mineral} \times 5 \text{ months} = 250 \text{ lbs. of mineral} / 50 \text{ lb. bag} = \underline{5 \text{ bags}}$$

8. At a cost of \$22.00 per bag for mineral, what will your total mineral cost be?

$$5 \text{ bags} \times \$22.00 \text{ per bag} = \underline{\$110.00}$$

9. If the cattle gain 3 pound per day for their next owner, how many days will it take them to get to 1260 pound from where they started when purchased by the feedlot?

$$1260 \text{ lbs.} - 870 \text{ lbs.} = 390 \text{ lbs.} / 3 \text{ lb. per head per day} = \underline{130 \text{ days}}$$

10. What is the most common Quality Grade of Fat cattle sold in the United States?

Circle one answer.

Prime

Choice

Select

Standard