

**2012 New York State Senior 4-H Horse Bowl  
Round 1**

**One-On-One**

1. C1      Q. Which breed has had the most influence in the development of light horse breeds in America?
- A. Thoroughbred (also accept Arabian as correct answer since the Thoroughbred was developed primarily from the Arabian)
- S. Evans p. 17              200/3
- 
2. C2      Q. What is the primary difference between a horse with a roan coat and a horse with a gray coat?
- A. A roan horse's coat does not change over time (proportion of white hairs is the same at birth and each successive coat); gray will become lighter (more white hairs with each successive coat)
- S. ES p. 38; Evans p. 81              300/2
- 
3. C3      Q. What term refers to a mature female horse that has never been bred?
- A. Maiden mare
- S. DET p. 174              510/2
- 
4. C4      Q. What 4 beat gait is the slowest gait and is common to all breeds of horses?
- A. Walk
- S. ES p. 70              640/2

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5. C1 Q. What is the common term for Equine Periodic Ophthalmia?

A. Moon Blindness

S. Evans p. 521                      825/3

6. C2 Q. Sun-cured hay is a good source of what vitamin?

A. Vitamin D

S. Evans p. 260                      740/2

7. C3 Q. What type of bit is considered to be the most severe western curb bit?

A. Spade bit

S. HIH 1100-10                      1000/3

8. C4 Q. What is the slang term for the medication phenylbutazone?

A. Bute

S. DET p. 43                          805/2

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9. C1    Q. What is the purpose of adding stickers or “mud calks” to the heel of a racing plate?  
A. To increase traction on a muddy race track (accept to increase traction)  
S. Evans p. 735                      900/2
10. C2    Q. What is the common term for the ossification of the lateral cartilages of the distal phalanx?  
A. Sidebones  
S. Kainer plate 12                      620/2
11. C3    Q. In a ranch operation, what is the purpose of a boundary rider?  
A. To ride the fences of the property and repair any problems  
S. DET p. 36                      920/3
12. C4    Q. What is the name for the winged horse of Greek mythology?  
A. Pegasus  
S. DET p. 207                      100/2

**End One-On-**

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**Begin Open Questions**

13. Q. Giving the horse more selenium, vitamin E and reducing grain intake on days the horse is idle are nutritional preventatives for what metabolic disorder in horses?
- A. Tying up (also accept Recurrent Exertional rhabdomyolysis, Monday morning sickness, Azoturia)
- S. Evans p. 306                      700/3
- 
14. Q. What is the common term for the 1<sup>st</sup> premolar teeth?
- A. Wolf teeth
- S. Kainer plate 49                      435/2
- 
15. Q. You are the veterinarian treating a horse with West Nile Encephalitis. The horse's owner is concerned and wants to know why you are not treating the horse with an antibiotic. Explain why.
- A. West Nile is caused by a virus and antibiotics are used to treat bacterial diseases
- S. HIH 665-2; DET p. 12                      805/3
- 
16. Q. What type of internal parasite causes "summer sores"?
- A. Stomach worm (also accept Habronema)
- S. Lewis p. 158                      835/2

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### Toss Up – Bonus Attached

17. Q. (Two Part) What is the recommendation for the minimum height for a perimeter fence and the minimum height for a fence used to divide pastures?
- A. 5 feet (60 inches) (perimeter); 4 ½ feet (54 inches) (divider)
- S. Evans p. 760; HIH 350-1            920/3

### Bonus Question

18. Q. (Bonus) Identify **four** advantages of having a “Dutch” or open top exterior door for each horse stall.
- A. Improves stable ventilation (better air quality)  
More light  
Permits horse to put head out into fresh air  
Decreases respiratory diseases  
Helps alleviate boredom/stable vices  
Provides a fire exit
- S. Lewis p. 181            920/3

### Resume Open Questions

19. Q. What term refers to a wild Australian horse?
- A. Brumby
- S. DET p. 41            200/3

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20. Q. What is another name for a dorsal stripe?
- A. Back stripe, line back or eel stripe
- S. ES p. 38            310/2
- 
21. Q. You are judging a cutting horse competition. It is important to remember when calculating the final scores that each entry begins with what score?
- A. 70 points
- S. HIH 180D-1            1010/2
- 
22. Q. There are three parts of the small intestine. Which of these parts is the most distal portion?
- A. Ileum
- S. Kainer plate 51            430/3
- 
23. Q. Which current horse breed was originally known as the Kentucky Saddler?
- A. American Saddlebred
- S. Evans p. 38            200/3

## 2012 New York State Senior 4-H Horse Bowl Round 1

### Toss Up – Bonus Attached

24. Q. What are the two **most** common sources of calcium and phosphorus in horse feeds?
- A. Dicalcium phosphate and steamed bone meal
- S. YLM ADV 202-2L                      750/3

### Bonus Question

25. Q. (Bonus) In addition to a hoof pick, what are the **three** basic tools used by a farrier when trimming the feet?
- A. Hoof knife (farrier's knife), rasp and hoof nippers (nippers)
- S. Evans p. 722, 725                      900/3

### Resume Open Questions

26. Q. What does the term Indian broke indicate?
- A. The horse is trained to allow mounting from the off side (also accept trained to allow mounting from both sides)
- S. DET p. 151                      980/2
27. Q. You do the math....A horse that is 66 inches tall would be considered to be how many hands tall?
- A. 16.2 hands tall
- S. Evans p. 139                      400/2

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28. Q. Describe a unicorn hitch.

A. Two horses hitched as a pair with a third in front of them  
(also accept pair of wheel horses with a single lead horse)

S. DET p. 279            1050/2

29. Q. What is the total number of bones in the skeleton of the horse?

A. 205

S. Evans p. 90            410/2

**Last Question of the Round**

30. Q. What gait defect is seen in pigeon-toed horses?

A. Paddling or winging out

S. Evans p. 181; DET p. 201            640/2



**2012 New York State Senior 4-H Horse Bowl  
Round 2**

**One-On-One**

1. C1     Q. What common term refers to the secretion produced by the lacrimal glands?
- A. Tears
- S. Kainer plate 45            425/2
- 
2. C2     Q. What term describes a gray horse with a basic body color of black?
- A. Blue or steel gray
- S. Evans p. 81            300/2
- 
3. C3     Q. What term refers to paired alleles of a gene that are **not** identical?
- A. Heterozygous
- S. Evans p. 451            550/2
- 
4. C4     Q. How does a horse reposition their head to better visualize objects that are far away?
- A. The horse lowers their head
- S. HIH 1220-1            425/3

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Round 2**

5. C1 Q. Perlino is the result of a double dilution of what color?

A. Bay

S. Evans p. 474                      300/3

6. C2 Q. You just found out that a young foal in your barn has white muscle disease. What vitamin deficiency is the most likely nutritional cause?

A. Vitamin E deficiency

S. ES p. 124                      740/3

7. C3 Q. What is the best and simplest way to control blood loss or hemorrhage from a wound?

A. Apply a pressure bandage (also accept apply direct pressure)

S. Evans p. 609                      400/2

8. C4 Q. The chestnut horse you recently purchased at an auction has a brand that is white in color. Would the brand most likely be a hot brand or a freeze brand?

A. Freeze brand

S. Evans p. 809                      310/3

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Round 2**

9. C1 Q. The genetic disorder Equine Night Blindness primarily affects which horse breed?
- A. Appaloosa
- S. ES p. 100                      550/2
- 
10. C2 Q. What mammal is considered to be the **primary** source of rabies in horses?
- A. Skunks
- S. HIH 680-1                      820/3
- 
11. C3 Q. “Ridgeling” is a slang term for what condition in the stallion?
- A. Cryptorchid (one or both testes are retained within the abdominal cavity or inguinal canal, not descended into the scrotum)
- S. Kainer plate 76                      500/3
- 
12. C4 Q. What is the **minimum** width for a gate that will be used to move equipment such as a tractor in and out of a pasture?
- A. Minimum of 12 feet wide
- S. Evans p. 771                      920/3

**End One-On-One**

**2012 New York State Senior 4-H Horse Bowl  
Round 2**

**Begin Open Questions**

13. Q. Toxicity of what mineral results in “Big head disease” or hyperparathyroidism?
- A. Phosphorus
- S. ES p. 135                      750/3
- 
14. Q. Black Allan is the foundation sire for which horse breed?
- A. Tennessee Walking Horse
- S. Evans p. 40                      200/2
- 
15. Q. You are the barn manager at a Quarter Horse breeding farm and note that one of the pregnant broodmares has wax-like secretions on the end of the teats. How soon would you expect this mare to foal?
- A. Accept anything within range of 1 to 6 days
- S. Lewis p. 244; Evans p. 417; HIH 940-3                      510/3
- 
16. Q. What type of bedding is preferred for foaling stalls?
- A. Straw
- S. HIH 940-3                      500/2

## 2012 New York State Senior 4-H Horse Bowl Round 2

### Toss Up – Bonus Attached

17. Q. (Two Part) What are the **three** roan colors and the base coat color associated with **each** of the colors?
- A. Blue roan (black); Red roan (Bay); Strawberry roan (chestnut)
- S. ES p. 47            300/2

### Bonus Question

18. Q. (Bonus) Identify **four** areas of the horse that would be visually appraised and palpated when determining a body condition score.
- A. Along the top side of the neck                      Over the rib cage  
In the crease down the back (topline)            Along the withers  
In the area adjacent to the tail head              Over the hip and pin bones  
Behind the shoulder/over the point of the shoulder
- S. HIH 720-3, 720-4            800/3

### Resume Open Questions

19. Q. Mosquitoes are considered to be the vector for transmission of West Nile Virus encephalitis. What is considered to be the **primary** reservoir host that infects mosquitoes with this disease?
- A. Birds (especially crows, blue jays and raptors such as owls and hawks)
- S. HIH 665-1            820/3
20. Q. What is the common term for the apocrine tubular glands?
- A. Sweat glands
- S. Kainer plate 5            460/3

**2012 New York State Senior 4-H Horse Bowl  
Round 2**

21. Q. What part of the bridle keeps the crown piece from slipping forward over the ears and off the head?
- A. Throatlatch
- S. HIH 1100-6            1000/2
- 
22. Q. What are you doing if you are “bulldogging”?
- A. Steer wrestling
- S. DET p. 43            1060/
- 
23. Q. Your horse has bones that are softened, bent and bowed out and has been diagnosed with rickets. This problem could be prevented in the future by feeding more of which vitamin?
- A. Vitamin D
- S. ES p. 124            740/2

**Toss Up – Bonus Attached**

- 24 . Q. Give **two** advantages of the elevated inside rim on a polo shoe.
- A. Increases traction, prevents sliding, enables foot to roll over faster, allows horse to pivot on the shoe while maintaining toe grip regardless of where the foot breaks over
- S. Evans p. 737            900/3

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**Bonus Question**

25.Q. (Bonus) **Other than dental changes**, identify **three** normal signs of aging that would be observed in the physical appearance of horses.

A. Drooping lower lip                      Deep hollows above the eyes  
    Sway back                                  Graying hair

S. HIH 450-1, 450-6                      400/3

**Resume Open Questions**

26. Q. What is the most common topical medication used to control bleeding wounds?

A. Silver nitrate

S. HIH 440-2                      805/3

27. Q. Aniridia is a genetic disorder in which the iris of the eye is absent. This occurs primarily in which horse breed?

A. Belgian

S. ES p. 100                      550/3

28. Q. What conformation defect is described by the term “wasp-waisted”?

A. Weak coupling or shallow in the flank

S. Evans p. 152                      600/3

**2012 New York State Senior 4-H Horse Bowl  
Round 2**

29. Q. What is the common name for the dominance hierarchy exhibited by a group of horses?
- A. Pecking order
- S. DET p. 207                      910/2

**Last Question of the Round**

30. Q. What is the name of the horse that was assigned the first permanent registration number in the AQHA?
- A. Wimpy P-1 (also accept Wimpy)
- S. Evans p. 27                      100/3



**2012 New York State Senior 4-H Horse Bowl  
Round 3**

**One-On-One**

1. C1     Q. Plant poisoning from consumption of Johnson grass would be treated as what type of sudden death poisoning?
- A. Cyanide-induced sudden death poisoning
- S. Lewis p. 334            770/3
- 
2. C2     Q. What does the term trappy describe in regards to way of going?
- A. Short, quick, high and choppy stride (accept choppy stride)
- S. Evans p. 181            640/2
- 
3. C3     Q. A foal that is being weaned will call for its dam. This would be categorized as what type of behavior?
- A. Et-epimeletic behavior
- S. Evans p. 676            910/3
- 
4. C4     Q. In general, what type of horse is often used as a nurse mare because they produce more milk?
- A. Draft or draft-cross mares
- S. Lewis p. 273            510/3

**2012 New York State Senior 4-H Horse Bowl  
Round 3**

5. C1 Q. What is the pangaré effect?
- A. Gene that results in light areas on the muzzle, over the eyes, on the flanks and on the inside of the legs
- S. Evans p. 481                      300/3
- 
6. C2 Q. All Standardbreds trace their ancestry to what horse?
- A. Hambletonian 10 (Hambletonian)
- S. HIH 171B-1                      200/3
- 
7. C3 Q. What is the common name for *Oxyuris equi*?
- A. Pinworms
- S. Lewis p. 400                      835/3
- 
8. C4 Q. What is the name of the famous endurance trail ride that takes place in California and is ridden over the former route of the Pony Express?
- A. Tevis Cup
- S. DET p. 266                      1070/3

**2012 New York State Senior 4-H Horse Bowl  
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9. C1 Q. What general type of medication is used to reduce a fever?

A. Antipyretic

S. DET p. 13                    805/3

10. C2 Q. What organ receives oxygenated blood from the renal artery?

A. Kidney

S. Kainer plate 60            470/3

11. C3 Q. What would be added to the shoes of pack horses and mules to extend the life of the shoes?

A. Borium

S. Evans p. 738                900/2

12. C4 Q. What is the term used to describe an allele of a gene that has the ability when expressed to mask any observed phenotype from expression of either a different allele for the same gene or another gene regulating the same trait?

A. Dominant

S. ES p. 90                    550/2

**End One-On-One**

**2012 New York State Senior 4-H Horse Bowl  
Round 3**

**Begin Open Questions**

13. Q. You do the math... A 25 year old horse would be equivalent to a human of what age?
- A. 75 years old (1 horse year = 3 human years)
- S. HIH 450-1            400/2
- 
14. Q. A horse that has pediculosis is infested with what type of external parasite?
- A. Lice
- S. Lewis p. 399            835/3
- 
15. Q. An artificial lighting program for the manipulation of the estrous cycle of mares usually results in ovulation after how many days?
- A. 60 to 90 days (accept anything within this range)
- S. YLM ADV 336-2L            510/3
- 
16. Q. What is the poisonous chemical secreted by blister beetles?
- A. Cantharidin
- S. YLM ADV 300-3L            835/2

**2012 New York State Senior 4-H Horse Bowl  
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**Toss Up – Bonus Attached**

17. Q. Which **two** anatomic structures aid the horse in collecting loose feed such as kernels of grain from a feed bucket or manger?
- A. Upper lips (also accept lips) and tongue
- S. Evans p. 93            430/3

**Bonus Question**

18. Q. (Bonus) Identify the **three** stallions that are **traditionally** considered to be the foundation sires for the Thoroughbred.
- A. Byerly Turk, Godolphin Arabian and Darley Arabian
- S. Evans p. 21            200/4

**Resume Open Questions**

19. Q. How does a straight shoulder affect the length of the back?
- A. The straighter the shoulder the longer the back
- S. YLM INT 223-3L            600/3
20. Q. A mare that has hyperkalemia has an abnormally high level of what electrolyte in her blood?
- A. Potassium
- S. DET p. 146            800/3

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21. Q. What is the purpose for the fleshy upper and lower eyelids known as “hooded eyes” which are characteristics of Exmoor ponies?

A. To protect their eyes from the harsh wind and rain

S. HIH 157B-2          200/3

22. Q. What is the **primary** cause of runoff and soil erosion on horse farms?

A. Overgrazing

S. HIH 360-4          970/3

23. Q. When comparing a cowboy shoe and a mule shoe... What are the **two** main differences in the **shape** of the mule shoe?

A. Mule shoes are longer, narrower, closer (narrower) at the heels (only need to give 2 answers)

S. Evans p. 732, 734          900/3

**Toss Up – Bonus Attached**

24. Q. Identify **three** types of teeth that are **only** present as permanent teeth.

A. Wolf teeth, molars and canines

S. HIH 405-1; Evans p. 92          435/3

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**Bonus Question**

25. Q. (Bonus) Name **four** of the approved coat patterns for a pony to be registered with the Pony of America Club.
- A. Snowflake, frost, blanket, leopard, few spot leopard, marbled roan, white with dark spots over hindquarters
- S. HIH 167B-2          300/3

**Resume Open Questions**

26. Q. What is the **minimum** height for an indoor arena that will be used for hunter/jumper horses?
- A. Minimum of 16 foot ceiling
- S. HIH 320-7          920/3
- 
27. Q. What piece of equipment can be used with young maiden mares to prevent lacerations, tears or bruises of the vagina or cervix during live cover breeding?
- A. Breeding roll
- S. Evans p. 413          500/3

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28. Q. What is the term for the chronic dermatitis that occurs from inflammation of the back of the pastern?

A. Grease-heel, Scratches, Grease or Mud fever (also accept cracked heels)

S. Evans p. 167; DET p. 183                      620/3

29. Q. What is the common term for the middle phalanx?

A. Short pastern

S. Kainer plate 12                      410/3

**Last Question of the Round**

30. Q. Charging refers to the behavior of a horse that suddenly attacks or savages a person or other horse. What does charging refer to in jumping events?

A. Rushing into the fence

S. DET p. 54                      1075/3



**2012 New York State Senior 4-H Horse Bowl  
Round 4**

**One-On-One**

1. C1      Q. The American Walking pony is a result of breeding the Tennessee Walking Horse and what pony breed?
- A. Welsh Pony
- S. Evans p. 66            200/3
- 
2. C2      Q. What are the **two** artificial gaits performed by the 5-gaited American Saddlebred ?
- A. Slow gait (stepping pace) and rack (single-foot)
- S. Evans p. 40, 178        640/3
- 
3. C3      Q. There is a red maple tree on your neighbor's property next to your fence line. You discovered your horse eating green leaves off the branches that are within the horses reach. What effect would you expect from the horse eating the red maple leaves?
- A. None – Red maple leaves are not toxic when fresh (leaves are toxic when wilted or dried)
- S. Lewis p. 331            770/3
- 
4. C4      Q. Rapid growth is an important factor contributing to DOD. What do the initials DOD represent?
- A. Developmental Orthopedic Diseases
- S. Lewis p. 283            810/3

**2012 New York State Senior 4-H Horse Bowl  
Round 4**

5. C1    Q. What gland produces the hormone epinephrine?  
  
          A. Adrenal gland  
  
          S. Evans p. 127                    490/4
6. C2    Q. What is the common term for the proximal interphalangeal joint?  
  
          A. Pastern joint  
  
          S. Evans p. 689                    410/3
7. C3    Q. What activity is judged on how well the human and equestrian athletes work together, includes free style routines and is defined as “gymnastics on horseback”?  
  
          A. Vaulting  
  
          S. HIH 185D-1                    1010/3
8. C4    Q. Palomino horses do not “breed true”. What does this mean?  
  
          A. When breeding a palomino to a palomino only 50 percent will produce a palomino (also accept breeding a palomino to a palomino will not always result in a palomino)  
  
          S. Evans p. 51                    550/3

**2012 New York State Senior 4-H Horse Bowl  
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9. C1 Q. The breeding of what two equines produces a hinny?  
A. Stallion and female donkey (jennet or jenny)  
S. ES p. 22            550/3
10. C2 Q. What is the common or slang term for Equine Infectious Anemia?  
A. Swamp fever  
S. Lewis p. 175; DET 260            800/3
11. C3 Q. What term refers to the middle team of horses in a 6-horse hitch?  
A. Swing team  
S. DET p. 261            1050/3
12. C4 Q. Decreased growth rates, muscle loss, slow hoof growth and lack  
of energy are all effects of a deficiency of what class of nutrients?  
A. Protein  
S. ES p. 120            760/4

**End One-On-One**

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Round 4**

**Begin Open Questions**

13. Q. Gigantic head, undeveloped and spiraling of the tail are all terms used when describing which of the 4 criteria used to evaluate semen?

A. Morphology

S. Evans p. 366                      520/4

14. Q. What type of bacteria is the most common cause of infectious enterocolitis in adult horses and results in lethargy, anorexia, colic and diarrhea?

A. Salmonella

S. ES p. 171; HIH 660-1, 660-2                      830/4

15. Q. The dark liver or black chestnut color is **primarily** found in what breed of horses?

A. Morgan

S. Evans p. 36                      300/3

16. Q. Horses with recurrence of urinary calculi would benefit from feeding a diet that has less of what specific mineral?

A. Calcium

S. Lewis p. 297                      750/3

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Round 4**

**Toss Up – Bonus Attached**

17. Q. (Two Part) What are the **two** most common types of hammers used by a farrier and what are each of them used for?
- A. Rounding hammer - making and shaping shoes  
Driving hammer - driving nails, forming and finishing clinches, wringing off the nails
- S. Evans p. 728                      900/3

**Bonus Question**

18. Q. (Bonus) Vital signs that include TPR, capillary refill, mucous membranes and skin pliability are used to evaluate the health of the horse. Identify **four** other observations that are used to evaluate a horse's health.
- |   |                |
|---|----------------|
| A. Body fluids (feces, urine, tears, saliva, sweat) | Hair coat      |
| Body condition and weight                           | Movement       |
| Normal behavior/alertness                           | Hoof condition |
| Behavior disorders                                  |                |
| Feeding habits/appetite                             |                |
| Menace reflex                                       |                |
- S. HIH 425-1                      800/4

**Resume Open Questions**

19. Q. What is a ginglymus joint?
- A. Hinge joint (ex. elbow)
- S. Kainer plate 13; Evans p. 688                      410/3

**2012 New York State Senior 4-H Horse Bowl  
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20. Q. In regards to anatomy, the horses first line of defense against cold weather is a long thick hair coat which provides insulation and protection. What part of the anatomy provides additional insulation and is considered to be the next line of defense against cold?

A. Fat (layer of fat under the skin)

S. Lewis p. 188                      460/4

21. Q. What type of bar shoe would be used for the treatment of a horse with navicular disease?

A. Egg bar ( not heartbar)

S. HIH 540a                      900/3

22. Q. Which current breed of horses was formerly referred to as “Steeldusts”?

A. Quarter Horse

S. Evans p. 25                      200/3

23. Q. What term describes fresh, green forage that is cut, chopped and fed all in the same day?

A. Soilage or green chop (do not accept silage which is fermented)

S. Lewis p. 403                      780/3

**2012 New York State Senior 4-H Horse Bowl  
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**Toss Up – Bonus Attached**

24. Q. In regards to pasture management, identify **two** instances when you should keep horses off pasture.
- A. During pesticide spraying, when fertilizing, to reduce overgrazing, when there is fresh or lush pasture, during winter, when soils are wet
- S. HIH 360-3, 360-4            920/3

**Bonus Question**

25. Q. (Bonus) Give the common name for these **four** internal parasites...
- Parascaris equorum  
Habronema  
Strongyloides westeri  
Cyathostomes
- A. Ascarid or roundworms (Parascaris equorum)  
Stomach worm (Habronema)  
Threadworms (Strongyloides westeri)  
Small strongyles (Cyathostomes) (must specify “small” strongyles)
- S. Lewis p. 386, 392, 399, 406            835/4

**Resume Open Questions**

26. Q. A cervix that is pale in color, produces a thick, sticky mucus and is tightly closed indicates the influence of which hormone?
- A. Progesterone
- S. HIH 910-3; Evans p. 336            510/3

**2012 New York State Senior 4-H Horse Bowl  
Round 4**

27. Q. What is the country of origin for the Highland Pony?
- A. Scotland
- S. DET p. 139            200/3
- 
28. Q. In general a complete feed is a commercially prepared diet that includes both forage and grain. It would meet all of the nutritional requirements of the horse **except** for which **two** nutrients?
- A. Water and salt
- S. Lewis p. 385            700/4
- 
29. Q. What does the term “nicking” refer to in regards to the offspring from a linebreeding program?
- A. Offspring that are superior to their parents
- S. HIH 1080-1            550/3

**Last Question of the Round**

30. Q. What test would be indicated for a horse that is suspected of having Equine Infectious Anemia?
- A. Coggins test
- S. HIH 630-1            840/3



**2012 New York State Senior 4-H Horse Bowl  
Round 5**

**One-On-One**

1. C1     Q. In the evolution of the horse, what term refers to the first 1-toed horse that lived 12 million years ago?
- A. Plihippus
- S. ES p. 9                    100/4
- 
2. C2     Q. Which gait of the Paso Fino is also referred to as the short walk?
- A. Paso corto (paso fino is a fine walk and paso largo is a long walk)
- S. ES p. 82                    640/4
- 
3. C3     Q. How often should horses be offered water when trailering long distances?
- A. Every 3-4 hours
- S. YLM ADV 301-2L            960/3
- 
4. C4     Q. What is the name of the first horse to win the Kentucky Derby?
- A. Aristides
- S. DET p. 15                    1040/3

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Round 5**

5. C1 Q. What vein is located in the groove between the brachiocephalic and sternomandibular muscles in the neck?
- A. External jugular (also accept jugular)
- S. Kainer plate 61                      440/4
- 
6. C2 Q. What is the difference between a sole knife and a hoof or farrier's knife?
- A. Sole knife is used like a chisel when the sole is too hard to cut with the farriers knife (usually during hot, dry weather)
- S. Evans p. 728                      900/4
- 
7. C3 Q. Levels of acid detergent fiber (ADF) and neutral detergent fiber (NDF) indicate the maturity and digestibility of hay. Would low or high levels indicate better quality hay?
- A. Lower levels of ADF and NDF
- S. HIH 750-2                      780/3
- 
8. C4 Q. Galvayne's groove appears on the upper corner incisor at about 10 years of age. At what age has the groove completely disappeared from the tooth?
- A. 30 years
- S. HIH 240-4                      435/3

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Round 5**

9. C1 Q. Consumption of Milkweed or Dogbane would be classified as what specific type of sudden death poisoning?
- A. Cardiac glycoside-induced sudden death (also accept cardiac sudden death)
- S. Lewis p. 334                      770/3
- 
10. C2 Q. What rare genetic disease results in foal death due to infection and the characteristic appearance of foals with missing patches of hair or skin at birth?
- A. Epitheliogenesis Imperfecta
- S. Evans p. 514                      880/3
- 
11. C3 Q. What is the name of the rings on the surcingle or harness that the reins pass through?
- A. Terrets (also pronounced turret)
- S. DET p. 265                      1000/3
- 
12. C4 Q. What organization reviews and updates the Horse Industry Handbook and Youth Leaders Manual reference books?
- A. American Youth Horse Council (AYHC)
- S. HIH 1940-2                      220/3

**End One-On-One**

**2012 New York State Senior 4-H Horse Bowl  
Round 5**

**Begin Open Questions**

13. Q. Would a **Standard** Diamond Brand size 1 shoe most likely be used for shoeing a pony, average horse or a large horse?
- A. Average size horse
- S. Evans p. 728                      900/4
- 
14. Q. Hackney ponies are typically what color?
- A. Bay
- S. Evans p. 64                      200/3
- 
15. Q. What type of medication is an alcohol based substance applied to the horses legs after exercise to prevent swelling?
- A. Brace (also accept liniment)
- S. DET p. 36, 169                      805/3
- 
16. Q. (Two Part) Where would you find an elliptic spring on a carriage and what is its purpose?
- A. Spring under the seat; to absorb shock
- S. DET p. 90                      1000/4

**2012 New York State Senior 4-H Horse Bowl  
Round 5**

**Toss Up – Bonus Attached**

17. Q. “Leaf shatter” may occur when hay is baled too dry.  
What nutrient contained in the leaves is lost when  
the leaves prematurely fall off the stems?

A. Protein (also accept carbohydrates)

S. HIH 750-3, 750-4            780/3

**Bonus Question**

18. Q. (Bonus) You are the night attendant for a large breeding farm.  
One of the broodmares is lying down and in hard labor.  
The foal is in a normal presentation with the front feet, front  
legs and nose delivered, however, even with strong contractions  
and pushing by the mare the labor is not progressing with  
delivery of the shoulders. Give **three** guidelines on how to  
correctly assist the mare with the delivery.

A. Grasp the foal’s legs at the ankles with your hands  
Maintain the correct position with one foot slightly forward  
As the mare exerts pressure hold the foal at the level the mare  
has expelled the foal to so the foal does not slide back  
Do not pull on the foal unless the mare is exerting pressure  
When pulling only one person should exert slight pressure  
When pulling exert downward pressure in an arc toward  
the mare’s hocks to maintain correct delivery position  
Strong traction on the forelegs can result in damage to the  
mare or the foal’s chest

S. HIH 940-4, 940-5            500/4

**2012 New York State Senior 4-H Horse Bowl  
Round 5**

**Resume Open Questions**

19. Q. What is a flat race?  
A. A race without jumps  
S. DET p. 109            1040/2
20. Q. Who is credited with the development of the Appaloosa breed?  
A. Nez Perce Indians  
S. HIH 152B-1; Evans p. 32            200/2
21. Q. You do the math... You are the owner of a construction company that specializes in designing equine facilities. You will be building a hunter/jumper barn that will have 30 stalls. What is the **minimum** length of ridge vent to be installed for adequate ventilation?  
A. Minimum of 30 feet (at least 1 foot per stall)  
S. HIH 320-8            920/3
22. Q. What is micturition?  
A. Urination  
S. Evans p. 119            470/3

**2012 New York State Senior 4-H Horse Bowl  
Round 5**

23. Q. What horse was the foundation sire for the American Albino?

A. Old King

S. Evans p. 53            200/3

**Toss Up – Bonus Attached**

24. Q. Color is largely controlled by the pigment melanin. What are the **two** forms of melanin?

A. Eumelanin and Pheomelanin

S. ES p. 93            300/3

**Bonus Question**

25. Q. (Bonus) Identify **four** types of **modifications** of a standard horse shoe that could be used by a farrier for corrective or therapeutic shoeing.

A. Square toe on shoe	Trailer
Calks	Bar across break-over point
Toe extension	Rolled toe shoe
Slippered heels	Half-rim
Chadwick spring	Raise or lower toe of shoe
Toe clips	Raise or lower heel of shoe
Shorten or lengthen toe of shoe	
Raise or lower inside or outside rim	

S. Evans pp. 748-750            900/4

**Resume Open Questions**

26. Q. What is the common term for leukoencephalomalacia?

A. Moldy corn disease

S. Lewis p. 357            830/4

**2012 New York State Senior 4-H Horse Bowl  
Round 5**

27. Q. When packing with horses, what is the name of the piece of canvas that covers and protects the load?
- A. Manta (also accept “manty”)
- S. HIH 1125-3                      1020/3
- 
28. Q. What is the common term for the Culicoides biting midge?
- A. “Punkies” or “no-see-ums”
- S. HIH 415-3
- 
29. Q. What is the purpose of applying a hot poultice?
- A. To increase the blood supply to an area, to draw out infection as with a sole abscess or puncture wound, to encourage an abscess to open and drain (only need to give one answer)
- S. HIH 440-6                      805/3

**Last Question of the Round**

30. Q. In regards to the racing industry, what is a bug boy?
- A. Apprentice jockey (nickname came about because of the “bug” or asterisk denoting the 5 pound weight allowance)
- S. DET p. 42                      1040/3



**2012 New York State Senior 4-H Horse Bowl  
Round 6**

**One-On-One**

1. C1     Q. What specific type of bacteria causes Tetanus?  
A. Clostridium tetani  
S. HIH 445-2            820/3
2. C2     Q. What is the common term for the deformity of the jaw referred to as prognathia?  
A. Monkey mouth or sow mouth  
S. Lewis p. 396            600/4
3. C3     Q. What is the cry of the hunt once the fox has been sighted?  
A. Tallyho  
S. DET p. 262            1080/2
4. C4     Q. What marking is described as a muscular depression of unknown origin, is usually seen on the neck and sometimes seen on the shoulder?  
A. Prophet's thumb  
S. DET p. 221            310/4

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

5. C1 Q. What noseband is a cross between a cavesson and a figure eight noseband?
- A. Flash noseband
- S. DET p. 109            1000/3
- 
6. C2 Q. Your horse is exhibiting the following symptoms...abrupt onset of open mouth with the tongue hanging out and **inability** to prehend or chew food. What type of plant poisoning do these symptoms indicate?
- A. Yellow star thistle or Russian knapweed (only need to give one answer)
- S. Lewis p. 315            770/4
- 
7. C3 Q. What color would be the result of the silver gene on a chestnut horse?
- A. Chestnut (the silver gene only affects black areas and does not affect red areas)
- S. HIH 1040-2            300/4
- 
8. C4 Q. What type of horse performs the gait known as the jiggle?
- A. Cow horse
- S. DET p. 157            640/4

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

9. C1 Q. What type of trailer hitch must be securely attached to the frame **and** the truck bed?

A. Gooseneck

S. HIH 1155-1            960/3

10. C2 Q. What type of fence is low maintenance and has the longest life expectancy?

A. PVC/Vinyl

S. Evans p. 768; HIH 350-5            920/3

11. C3 Q. Inflammation of what specific anatomical structure results in the blemish referred to as a curb?

A. Plantar tarsal ligament (also accept plantar ligament)

S. Evans p. 165            620/3

12. C4 Q. What is the only basic modification of black that **does not** have black points?

A. Perlino

S. Evans p. 473            300/4

**End One-On-One**

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

**Begin Open Questions**

13. Q. Other than the characteristic curly coat, what is unique about the mane and tail of the Bashkir Curly?
- A. It often falls out completely each summer and re-grows during the winter
- S. DET p. 8            200/4
- 
14. Q. What type of Rhinopneumonitis may invade the brain and spinal cord causing incoordination, paralysis and recumbency?
- A. EHV-1 (Equine Herpes Virus Type I)
- S. HIH 610-1            850/4
- 
15. Q. Wood is one of the most desirable materials for building stalls. What type of wood is considered to be the strongest and is less likely to be destroyed by horses chewing on it?
- A. Rough cut oak (also accept oak)
- S. HIH 320-5            920/3
- 
16. Q. Identify the **two** most palatable grasses for horse pastures.
- A. Kentucky bluegrass and timothy
- S. Lewis p. 109            780/3

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

**Toss Up – Bonus Attached**

17. Q. What **three** main colors provide the basis for most other colors?
- A. Bay, black and chestnut
- S. HIH 1040-1            300/3

**Bonus Question**

18. Q. Identify **four** causes of diarrhea in foals.
- A. Nutritional causes  
Foal heat  
Parasites (threadworms, strongyles, ascarids)  
Bacteria (E. coli, salmonella, clostridium, rhodococcus equi)  
Virus (rotavirus, coronavirus, adenovirus)  
Gastric ulcers  
Sand ingestion  
Combined Immunodeficiency  
(also accept infection as general term that would include both viral and bacterial infections)
- S. Lewis p. 259            830/4

**Resume Open Questions**

19. Q. The luteinizing hormone stimulates the production of what hormone in the stallion?
- A. Testosterone
- S. Evans p. 361            490/4

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

20. Q. Identify the following disease... Standing with the neck arched and stretched out, appears anxious, has saliva mixed with feed at the nostrils and is drooling saliva from the mouth.

A. Choke

S. Evans p. 611                      830/611

21. Q. What is the common name for the medication Magnesium Sulfate that is used as a foot soak to promote drainage of a hoof abscess?

A. Epsom salts

S. HIH 540-2                      805/3

22. Q. At what age does the hook on the upper corner incisor first appear?

A. 7 years

S. Kainer plate 49                      435/3

23. Q. Which breed is known as the “Prince of Ponies” and “aristocrat of the show ring”?

A. Hackney Pony

S. Evans p. 61; HIH 158B-1                      200/ 3

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

**Toss Up – Bonus Attached**

24. Q. A true genetic lethal results in embryonic death which is death before birth. Which **two** color genes are lethal when they are **homozygous**?

A. Roan and dominant white

S. HIH 1060-4                      550/4

**Bonus Question**

25. Q. (Bonus) There are many different nutritional deficiencies that may result in anemia. Identify **four** of these nutrients.

A. Iron                                  Copper  
Vitamin E                              Vitamin B6  
Folic acid                              Vitamin B12  
Protein                                 Vitamin K

S. Evans p. 307; Lewis p. 51                      700/4

**Resume Open Questions**

26. Q. In which joint would the calcaneus be found?

A. Hock (tarsus)

S. Kainer plate 30                      410/4

27. Q. What term refers to the shield-like bulge between the eyes of Arabian horses?

A. Jibbah

S. HIH 153B-2                      200/4

**2012 New York State Senior 4-H Horse Bowl  
Round 6**

28. Q. A saddle seat saddle is often referred to as a “cut back” saddle. The head of the saddle is cut back to accommodate what characteristic conformation aspect of the breeds that are most often shown in the saddle seat division?

A. High-withers (also accept anything that describes the high head and neck carriage)

S. HIH 1100-1                      1000/3

29. Q. Poisonous plants that are classified as hepatotoxic primarily affect which organ?

A. Liver

S. Lewis p. 309                      770/3

**Last Question of the Round**

30. Q. What is the common term for the external parasite *Stomoxys calcitrans*?

A. Stable fly

S. HIH 415-1                      835/4