

**2011 New York State 4-H Junior Horse Bowl  
Round 2**

**One-On-One**

1. C1     Q. The uterus of the horse is composed of how many distinct layers?  
          A. Three (serous, myometrium, endometrium)  
          S. HIH 910-3
  
2. C2     Q. Denmark is a foundation sire of the American Saddlebred horse.  
          What breed of horse was Denmark?  
          A. Thoroughbred  
          S. Evans p. 38
  
3. C3     Q. Where is the location of the swing team in an 8-horse hitch?  
          A. Right in front of the wheelers  
          S. DET p. 261
  
4. C4     Q. What is the name of the wide, flat surfaced horseshoes used on the  
          hind feet of reining horses?  
          A. Sliding plates  
          S. DET p. 248

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5. C1 Q. Horses and ponies have 32 pairs or 64 chromosomes.  
How many chromosomes does a donkey have?
- A. 31 pairs or 62 chromosomes
- S. ES p. 20
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6. C2 Q. What type of martingale is being described: The main strap comes up  
from the cinch and divides into two pieces, with rings at each end of  
the split. The reins pass through the rings.
- A. Running martingale
- S. HIH 1100-12
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7. C3 Q. What vitamin is needed for production of factors that ensure proper  
clotting of the blood?
- A. Vitamin K
- S. ES p. 45
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8. C4 Q. What color skin does a true grey horse have?
- A. Dark colored (pigmented) (not pink)
- S. ES p. 45

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9. C1 Q. What is the name of the teeth that appear in the interdental space of the male horse at five years of age?
- A. Canine teeth (other names for the teeth:tusks, tushes, bit teeth)
- S. Lewis p. 177
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10. C2 Q. In regards to racing, what term describes the area where the horses are saddled and viewed before the race?
- A. Paddock
- S. Lewis p. 398; DET p. 201
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11. C3 Q. What is the name of the small, short-coupled, eastcoast Indian horses used by early colonist for general-purposed?
- A. Chickasaw horses
- S. Evans p. 55
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12. C4 Q. How many pairs of ribs does a horse have?
- A. 18 pairs
- S. Kainer plate 8

**End One-On-One**

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### Begin Open Questions

13. Q. What is the suggested minimum width of a gate that will be used to move hay equipment in and out of a field?
- A. At least 16 feet wide
- S. Evans p. 771
14. Q. Accurate detection of estrus is essential to the efficiency of any horse breeding program. How many days is a mare in estrus during one complete estrous cycle?
- A. 3-7 days (any answer in the range)
- S. HIH 930-1; DET p. 100
15. Q. How many inches is a hand?
- A. 4 inches
- S. DET p. 129
16. Q. What kind of test would determine the nutrient character of the land and the requirement for lime and fertilizer to optimize forage growth?
- A. Soil test
- S. HIH 730-3

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### Toss Up – Bonus Attached

17. Q. In reference to breeding, what do the initials A.I. stand for?
- A. Artificial insemination
- S. Evans p. 376

### Bonus Question

18. Q. Identify two types of overo or “non-tobiano” paint or pinto horse colors.
- A. Frame overo  
Calico  
Sabino  
Splashed white  
(Do not accept tovero as it is a combination of tobiano and overo)
- S. ES pp. 49-50; HHH 1040-3

### Resume Open Questions

19. Q. “Big Red” was the nickname given to what famous racing thoroughbred?
- A. Secretariat (Man-O-War also accepted)
- S. Evans p. 22

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20. Q. What is the farrier's workbench that is used in many ways to prepare the shoes properly?
- A. Anvil
- S. Evans p. 727
21. Q. What is the term used when the paired genes in a horse are identical?
- A. Homozygous
- S. DET p. 141
22. Q. What organization governs the rules for buckskin and dun colored horses?
- A. International Buckskin Horse Association (IBHA)
- S. HIH 154B-1
23. Q. What is the term used for a living or nonliving thing that can transmit infective agents to another living thing causing health issues: eg.- a mosquito?
- A. Vector
- S. ES p. 169

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**Toss Up – Bonus Attached**

24. Q. The facial portion of the skull consists of three cavities. Name one of them.
- A. Orbital (surrounds the eye); nasal (nose) and oral (mouth)
- S. Evans p. 90

**Bonus Question**

25. Q. (Bonus) Identify three of the micro or trace minerals required by horses?
- A. Cobalt, copper, iodine, iron, manganese, selenium, zinc
- S. ES p. 131
26. Q. Lockjaw is the common term for what bacterial disease?
- A. Tetanus
- S. ES p. 172
27. Q. Female pinworms migrate from the large intestine to what area of the horse to lay its eggs?
- A. The anus
- S. ES p. 189

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28. Q. In what general area of the horse are the radial carpal flexor and the ulnar carpal flexor muscles located?
- A. Upper foreleg
- S. Kainer plate 19
29. Q. What is the main reason why hay storage should be a separate barn at least 100 feet away from other structures?
- A. Fire safety
- S. Evans p. 781

**Last Question of the Round**

30. Q. What structure of the horse's foot does the farrier trim with the nippers?
- A. Hoof wall
- S. Evans p. 742