







**2006 New York State Junior 4-H Horse Bowl  
Round Nine**

13. Q. The largest concentration of what mineral is found in the hemoglobin of red blood cells?
- A. Iron
- S. Lewis pg. 38 400
- 
14. Q. What is the disease of the foot caused by microorganisms in continuous wet and unsanitary conditions, it gives off a pungent odor, and causes a deterioration of the frog if not treated?
- A. Thrush
- S. DET pg. 268 800
- 
15. Q. What is a great way to keep the horse in condition that has leg or foot injuries?
- A. Swimming
- S. Evans pg. 784 1000
- 
16. Q. What is the name of the apparatus of a horse that is a system of muscles, tendons, and ligaments that locks the leg so the horse can sleep standing up?
- A. The stay apparatus
- S. DET pg. 254 400

**End One-On-One**

**2006 New York State Junior 4-H Horse Bowl  
Round Nine**

**Begin Open Questions**

17. Q. What is the name of the stallion that 99 % of all standardbreds trace back to?
- A. Hambletonian
- S. Evans pg. 28 200
- 
18. Q. What happens to the total nutrient content of hay when it is overcured?
- A. The nutrient content decreases
- S. HIH 750-4 700
- 
19. Q. What draft breed is known as the breed of the blacks and grays?
- A. The Percheron
- S. Evans pg. 70 200
- 
20. Q. What category of bones make up the knee joint?
- A. Short bones
- S. Evans pg. 90 400

**2006 New York State Junior 4-H Horse Bowl  
Round Nine**

**Toss Up – Bonus Attached**

21. Q. Name two items that both an english and a western headstall have.
- A. A crownpiece and cheekpiece
- S. HIH 1100-8 1000

**Bonus**

22. Q. Name the five regions of the vertebral column.
- A. Cervical, Thoracic, Lumbar, Sacral, Coccygeal (caudal)
- S. Kainer plate 7 400

**Resume Open Questions**

23. Q. How many players are on one team in a game of polo?
- A. Four players on a team
- S. DET pg. 217 1000
24. Q. What is the term for when a person is leading a horse while riding another horse?
- A. Ponying
- S. DET pg. 217 1000

**2006 New York State Junior 4-H Horse Bowl  
Round Nine**

25. Q. What is the name of the specialized hairs located on the outside of the nostrils and lips of the horse?
- A. Tactile hairs
- S. DET pg. 262 400

**Toss Up- Bonus Attached**

26. Q. What is the name of the large veins located on either side of the horse's windpipe in the underside of the neck that carries blood from the head and neck to the chest?
- A. Jugular veins
- S. Kainer plate 61 400

**Bonus**

27. Q. Sebum is a fatty secretion from certain glands in the skin and it coats the hair. Name three functions or reasons why sebum is important.
- |    |                         |   |
|----|-------------------------|---|
| A. | Causes hair to lie flat | Lubricates the skin                             |
|    | Gives haircoat a shine  | Inhibits the growth of microorganisms           |
|    | Helps repel water       | Increase dust or dirt to stick to repel insects |
- S. Lewis pg. 179 400

