



**2008 Senior State 4-H Horse Bowl  
Round Eight**

5. C1 Q. You have a mare that weighed 1,000 lb prior to breeding. How much do you estimate her foal will weigh at birth?
- A. 90 to 100 lb (9 % to 10% of the mare's body weight)
- S. HIH 940-5 530/4
6. C2 Q. In dressage, what type of walk is being described? The head and neck nod up and down twice during each stride. The gait is ground-covering and the head and neck extended. The rear feet overreach the prints of the front feet.
- A. Extended walk
- S. Evans 172 640/4
7. C3 Q. What is the term for a specialized type of horseshoe pad that can be removed to treat or apply medication to the hoof and then reattached?
- A. Hospital pad
- S. HIH 515-5 900/4
8. C4 Q. What is the proper name for the eye formed on the end of the lariat through which the rope is passed to form a loop?
- A. Honda
- S. DET 141 1060/4

**2008 Senior State 4-H Horse Bowl  
Round Eight**

9. C1 Q. In the horse's muscles, the anaerobic break down of glucose creating the waste product lactic acid during hard exercise is performed in the absence of adequate levels of what specific element?
- A. Oxygen
- S. HIH 850-1 410/3
10. C2 Q. Open front shelters or run-in sheds have become increasingly popular because of the many advantages they offer. However, there are several disadvantages. Name one.
- A. Unable to monitor diet  
Unable to control exercise  
Safety issues/increased risk of injury to horses
- S. Evans 772 920/3
11. C3 Q. Which breed of horse originated in the United States as a high-stepping show ring horse and is a cross of the Arabian and Saddlebred breeds?
- A. National Show Horse
- S. DET 188 200/3
12. C4 Q. What is the name of a common skin condition of the horse that can resemble an ulcerated wart and may be caused by a virus?
- A. Sarcoid
- S. DET 240 860/3

**End One-On-One**

**2008 Senior State 4-H Horse Bowl  
Round Eight**

**Begin Open Questions**

13. Q. There are no specific treatments for some poisonings, but horses are usually given activated charcoal and a saline laxative by stomach tube. What is the reason for giving these medications?
- A. To prevent further absorption of the toxin in the gastrointestinal tract (the activated charcoal binds with the toxin and the saline laxative speeds passage of any toxins through the digestive tract).
- S. Lewis 339 830/4
14. Q. Ventilation of a stable area is important for many reasons. In the hot summer it can provide cooling for the horses. The temperature in a properly ventilated barn should be no more than how many degrees above the outside temperature?
- A. 5 degrees Fahrenheit
- S. YLM 107-2L 920/4
15. Q. What bit is being described? This bit uses four reins. It is a one piece bit that functions like both a snaffle and a curb combined into one mouthpiece. One set of reins is attached to the rings and work like a snaffle and one set attaches to the shanks to provide a leveraged action.
- A. Pelham
- S. HIH 1100-10, DET 207 1000/3
16. Q. In the horse's renal system, what structure connects the kidney to the bladder?
- A. The ureter
- S. Kainer 68 470/3

**2008 Senior State 4-H Horse Bowl  
Round Eight**

**Toss Up – Bonus Attached**

17. Q. Name two types of teeth in the male horse that never occur as deciduous teeth and are only found as permanent teeth.
- A. Molars  
Wolf teeth  
Canine teeth
- S. HIH 240-1 430/3

**Bonus Question**

18. Q. Name two of the three striding leg interferences in which the toe of the foreleg hits the hind leg on the same side, and describe where on the rear leg the striking is occurring.
- A. Scalping – cornet  
Speedycutting – pastern or fetlock  
Shin hitting – cannon bone  
Hock-hitting – hock
- S. Evans 179, 180 620/4

**Resume Open Questions**

19. Q. A buck-kneed horse is sprung forward or over at the knee. This is considered a less serious fault than what type of knee conformation where the horse is back at the knee?
- A. Calf-kneed
- S. Evans 147 620/3

**2008 Senior State 4-H Horse Bowl  
Round Eight**

20. Q. The molds *Penicillium*, *Aspergillus* and *Fusarium* are responsible for most mycotoxin production. They are found sporadically in harvested and unharvested feeds. What is the most significant environmental factor in determining if the molds will grow and produce mycotoxins?
- A. Moisture
- S. Lewis 347 770/4
21. Q. The frog is a wedge-shaped mass that occupies the area between what structures at the heel of the foot?
- A. The bars (also accept commissures, lateral sulci or collateral groove)
- S. Evans 695, DET 62, Kainer plate 24 480/3
22. Q. Muscles that work together to accomplish a movement are called synergists. What is the term for muscles that oppose each other and limit movement?
- A. Antagonists
- S. Evans 696 410/4
23. Q. You are trying to decide between straw and wood shavings for bedding for your ten horse boarding facility. Straw is cheaper, but why might you still think it would be more economical to use shavings?
- A. Shavings are less labor intensive and may pay for their extra cost by savings in labor expense
- S. HIH 330-1 920/3

**2008 Senior State 4-H Horse Bowl  
Round Eight**

**Toss Up – Bonus Attached**

24. Two part Q. Name and give the function of the large muscle located on either side of the face, sitting beneath the ear, and covering the mandible.
- A. Masseter muscle; chewing – closes the jaws
- S. Kainer plate 16, DET 176 410/4

**Bonus Question**

25. Q. Name four nutrients that a good quality legume hay would be higher in than a good quality grass hay.
- A. Energy                      Calcium                      Vitamin B  
Protein                      Vitamin A  
(will accept Phosphorus – only marginally higher)
- S. YLM 202-1L, HIH 750-3 700/3

**Resume Open Questions**

26. Q. What structure in the brain controls the release of hormones by the pituitary gland?
- A. Hypothalamus
- S. Evans 126 490/3
27. Q. During pregnancy what structure in the mare protects the fetus from contamination and infection by serving as an impermeable barrier between the vagina and the body of the uterus?
- A. The cervix
- S. Evans 321, HIH 910-3 510/3

**2008 Senior State 4-H Horse Bowl  
Round Eight**

28. Q. What is the name for the special, flowing movement in which the forelegs roll to the outside as the horse strides forward that is performed by the Peruvian Paso?

A. Termino

S. Evans 43 640/3

29. Q. What condition is being described? This condition usually occurs in the horse's front legs and is found between the knee and the fetlock. It is more common in young horses in rigorous training. It starts as a soreness but can persist and forms a swelling on the front of the cannon bone.

A. Bucked shins

S. Evans 159-160 810/3

**Last Question of the Round**

30. Q. What do the following terms describe – pelican, gourd, appleton, dinner plate, and dally?

A. Types of horns on saddles

S. DET 14, 77, 81, 123, 207 1000/4