

**2012 New York State Senior 4-H Horse Bowl  
Round 8**

**One-On-One**

1. C1 Q. A deficit of what basic nutrient may increase the risk of impaction colic?

A. Water

S. ES p. 116                      700/3

2. C2 Q. What is the name for the lower horn on the near side of a sidesaddle?

A. Leaping horn

S. DET p. 166                      1000/4

3. C3 Q. Most foundation Quarter Horses trace their ancestry to which Thoroughbred stallion?

A. Janus

S. DET p. 157                      200/3

4. C4 Q. What is the purpose of a swedge in a horse shoe?

A. To increase traction (also accept to protect the nail heads from wear)

S. DET p. 260                      900/3

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5. C1 Q. Tobiano and overo coloring are both controlled by genes.  
Which color is displayed only if the genotype is homozygous  
for the recessive gene?

A. Overo

S. Evans p. 490                      300/4

6. C2 Q. Your horse has chronic obstructive pulmonary disease.  
To help manage this condition nutritionally it is helpful  
to do what before feeding your horse hay?

A. Soak the hay 5 minutes before feeding (also accept anything  
which indicates wetting down or soaking the hay)

S. Lewis pp. 291-292                      700/3

7. C3 Q. What term refers to the atrophy or shrinkage of the  
shoulder muscle due to a nerve injury?

A. Sweeny

S. DET p. 260                      620/3

8. C4 Q. Give the location for the point team in an 8-horse hitch.

A. Team behind the leaders

S. DET p. 215                      1050/4

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9. C1 Q. What is the longest muscle in the back?  
A. Longissimus dorsi  
S. DET p. 171            410/4
10. C2 Q. What is the slang term for the hobbles used on pacers  
to prevent them from breaking into a trot or gallop?  
A. Indiana pants  
S. DET p. 151            1000/4
11. C3 Q. What breed is born brown, mouse grey or black-brown, but  
typically turns white between the ages of 6 and 10?  
A. Lipizzan  
S. HIH 159B-1            200/4
12. C4 Q. What part of a pedigree is referred to as the top line?  
A. Stallion side (or direct line of male descendants)  
S. DET p. 271            220/4

**End One-On-One**

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**Begin Open Questions**

13. Q. What is the minimum recommended size for a stall for a stallion?
- A. 14 foot x 14 foot
- S. YLM INT 207-2            920/3
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14. Q. What term refers to the percentage of a horse's expressed trait that is due to genetics?
- A. Heritability estimate
- S. YLM ADV 335-2            550/4
- 
15. Q. Which part of the digestive tract has the fastest rate of passage for ingesta?
- A. Esophagus
- S. ES p. 109            430/4
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16. Q. You do the math...What is the cardiac output for a horse with a stroke volume of 1 liter and a heart rate of 40 beats per minute?
- A. 40 liters per minute
- S. Evans p. 111            440/4

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**Toss Up – Bonus Attached**

17. Q. Give **two** terms commonly used to describe the condition of the racetrack footing.
- A. Fast, sloppy, muddy, heavy
- S. DET p. 272            1040/3

**Bonus Question**

18. Q. (Bonus) The color terms alazán, tostado and ruano are South American descriptions of chestnut horses. Identify the specific color of chestnut that is associated with each of these terms.
- A. Alazán – red-colored horse with red points  
Tostado – red-colored horse with darker red-colored points  
Ruano – red-colored horse with lighter-colored points or a flaxen mane and tail
- S. ES p. 41            300/5

**Resume Open Questions**

19. Q. This bit has a straight bar mouthpiece and shanks. It can be used as a snaffle or curb and is most commonly used on heavy harness or plow horses. Identify this bit.
- A. Liverpool bit
- S. DET p. 170            1000/3

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20. Q. What specific type of glucose metabolism or glycolysis results in the production of lactic acid?

A. Anaerobic

S. HIH 850-2            410/4

21. Q. What is the common term for the chronic infection that is caused by the bacteria *Fusobacterium necrophorum*?

A. Thrush

S. Kaier plate 24            815/4

22. Q. Who is the foundation sire for the Morgan horse?

A. Justin Morgan (Figure)

S. Evans p. 36            200/3

23. Q. What are the two species of lice that infest the horse?

A. Bloodsucking (Sucking) and Biting

S. DET p. 168            835/3

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### Toss Up – Bonus Attached

24. Q. Lateral movement is defined as when the horse moves with the forehand and haunches on different tracks. Give **two** examples of lateral movements.
- A. Shoulder in, haunches in (travers), haunches out (renvers), half pass, two track
- S. DET p. 165            980/4

### Bonus Question

25. Q. (Bonus) Identify **five** advantages of using open-front sheds in comparison with traditional stabling for horses.
- A. Inexpensive to build and maintain  
Less labor and therefore more time available to handle horses, etc.  
Can be cleaned with a tractor and loader  
No daily stall cleaning  
Require less bedding  
Less space required for each horse than stalls  
Better ventilation  
Less respiratory problems  
Less digestive problems  
Better attitude of horses/Less stall vices  
Improved muscle tone/Less injuries with free exercise  
Fire safety/ Fires not likely to occur and horses not trapped
- S. Evans p. 772            920/5

### Resume Open Questions

26. Q. Give **two** other terms for the conformation defect in which the back is concave and referred to as sway back.
- A. Easy backed, saddle backed, lordosis
- S. DET p. 172, 260            600/4

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27. Q. The main function of the suspensory ligament is to prevent overextension of which joint?

A. Fetlock joint

S. Evans p. 708                      410/4

28. Q. What is the most common color for the Shire?

A. Black

S. Evans p. 72                      200/3

29. Q. What is the most important winter feed given to horses?

A. Good quality hay

S. YLM INT 204-2L                      700/3

**Last Question of the Round**

30. Q. Plant poisoning due to pyrrolizidine alkaloids (PA) results in damage to and eventual failure of what organ?

A. Liver

S. Lewis p. 313                      770/5