



# 2015 NC 4-H Horse Program State Hippology Contest

Senior Division

March 7, 2015

# Bubble in your ID number!

STUDENT ID

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Key ☐ K ☐ Verify ☐ V ☐ Rescore ☐ R

(T) (F)

1 ☐ A ☐ B ☐ C ☐ D ☐ E

2 ☐ A ☐ B ☐ C ☐ D ☐ E

1. Approximately what age is this horse?

- A. 7 years old
- B. 10 years old
- C. 20 years old
- D. 25 years old



2. At which month of gestation should a pregnant mare receive the first dose of this vaccine?

- A. 3 months
- B. 5 months**
- C. 7 months
- D. 9 months



### 3. This infection of the withers is caused by what bacterium?

- A. *Brucella abortus*
- B. *Escherichia coli*
- C. *Salmonella*
- D. *Bacillus anthracis*





4. This type of noseband, used primarily on racehorses, is known as what?

- A. Flash
- B. Drop
- C. Figure 8
- D. Australian Checker**



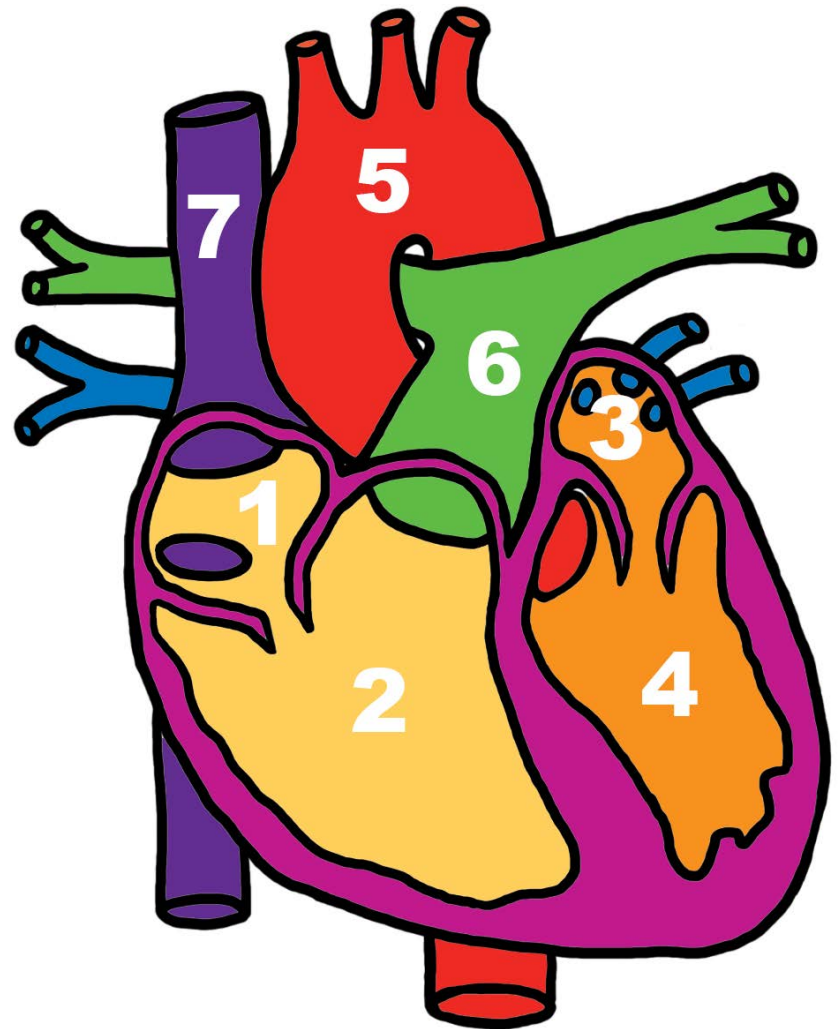
## 5. Which type of vertebrae is pictured?

- A. Cervical
- B. Thoracic
- C. Lumbar**
- D. Sacral



6. Name the structure in red,  
labeled “5.”

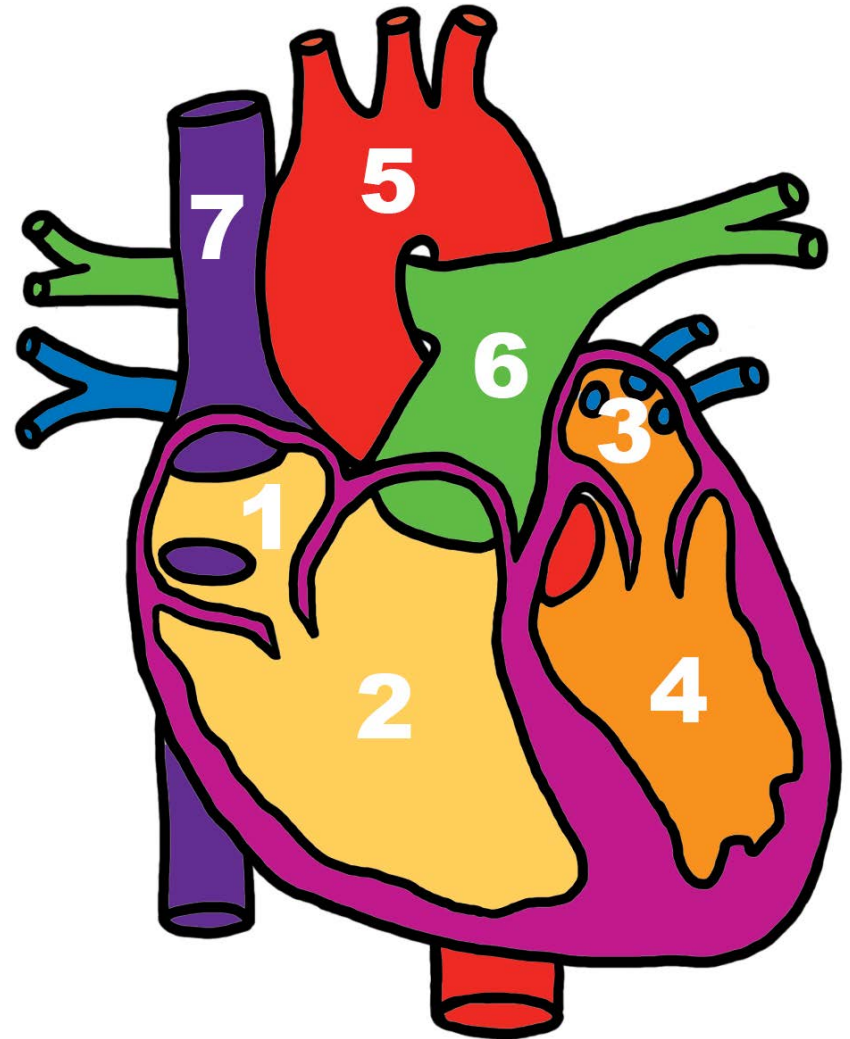
- A. Pulmonary artery
- B. Pulmonary Vein
- C. Aorta
- D. Vena Cava





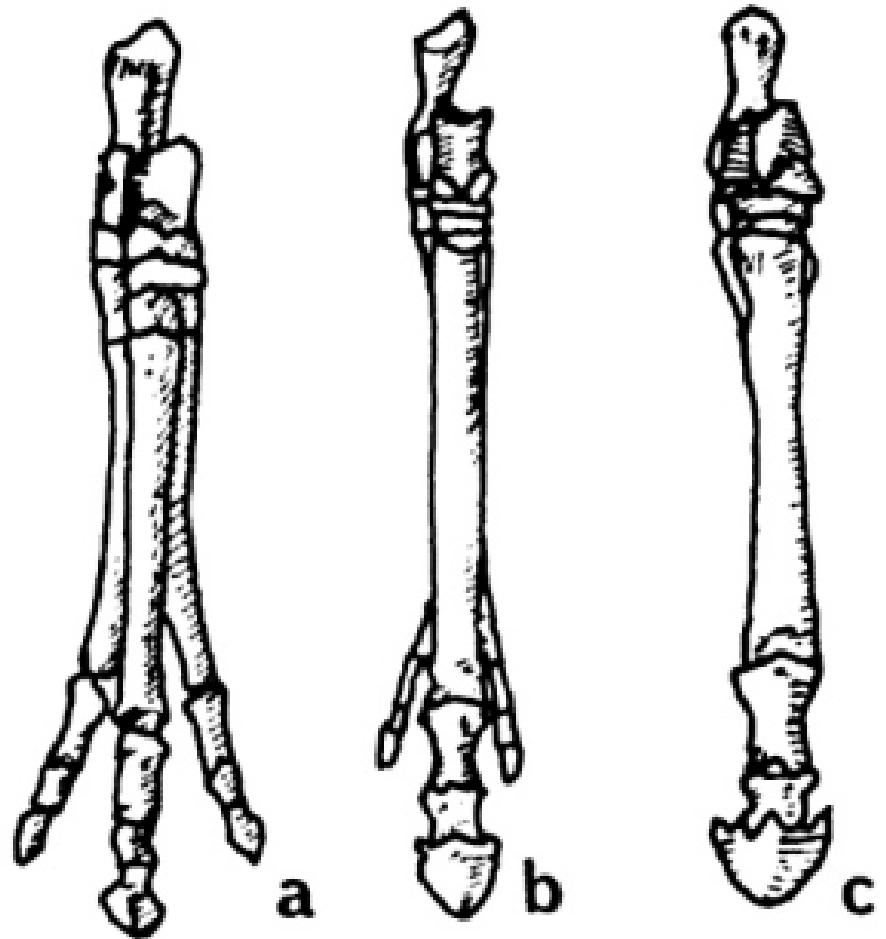
7. Name the structure in orange, labeled “4.”

- A. Right atrium
- B. Right ventricle
- C. Left atrium
- D. Left ventricle



# 8. The skeleton labeled “B” belonged to which predecessor to Equus?

- A. Eohippus
- B. Hyracotherium
- C. Merychippus**
- D. Pliohippus



9. Name this French breed that is among the most powerful of all draft breeds.

- A. Percheron
- B. Selle Francais
- C. Ardennais
- D. Camargue



10. This breeding behavior utilizes which sense?

- A. Olfactory
- B. Gustatory
- C. Tactile
- D. Auditory



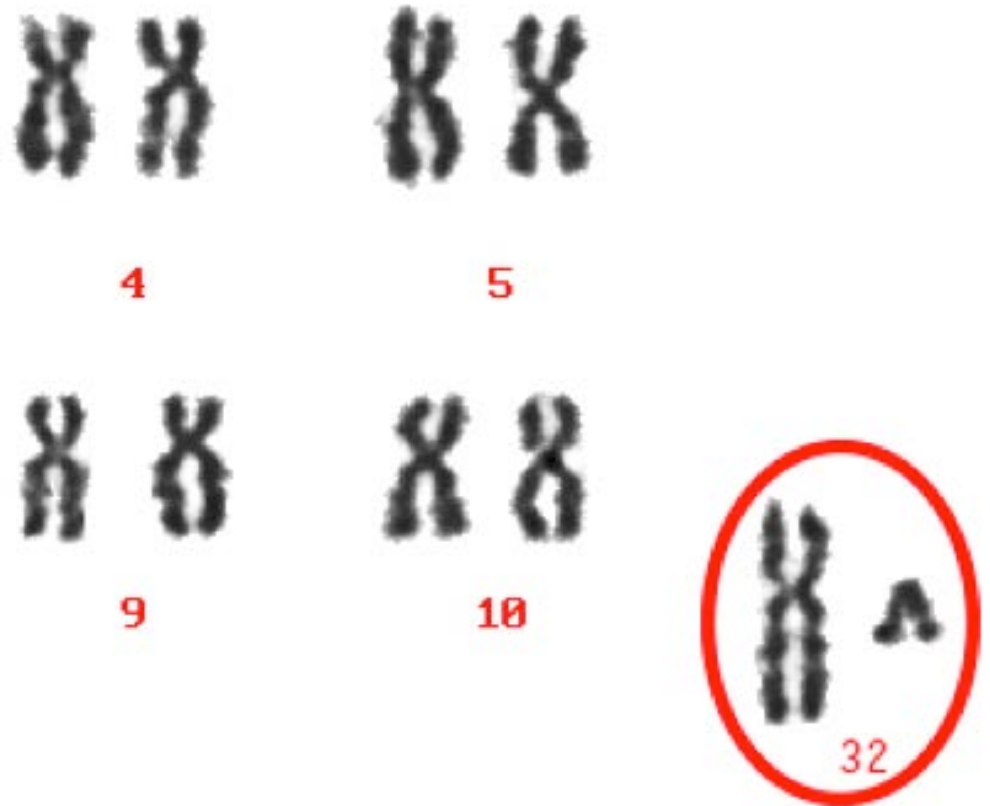
11. A horse's sex chromosomes are circled. What is the genotype and the phenotype of the horse?

A. XX; female

B. XY; male

C. XXXX; female

D. XXYY; male





## 12. What coat pattern is pictured?

- A. Frame overo
- B. Splashed white**
- C. Tovero
- D. Sabino



# 13. What kind of boots are pictured below?

- A. Galloping boots
- B. Skid boots
- C. Brushing boots
- D. Tendon boots



14. What poison is produced by this insect?

- A. Monensin
- B. Cantharidin
- C. Cyanide
- D. Anthrax



# 15. The crossing of these two horses may result in what genetic disorder?

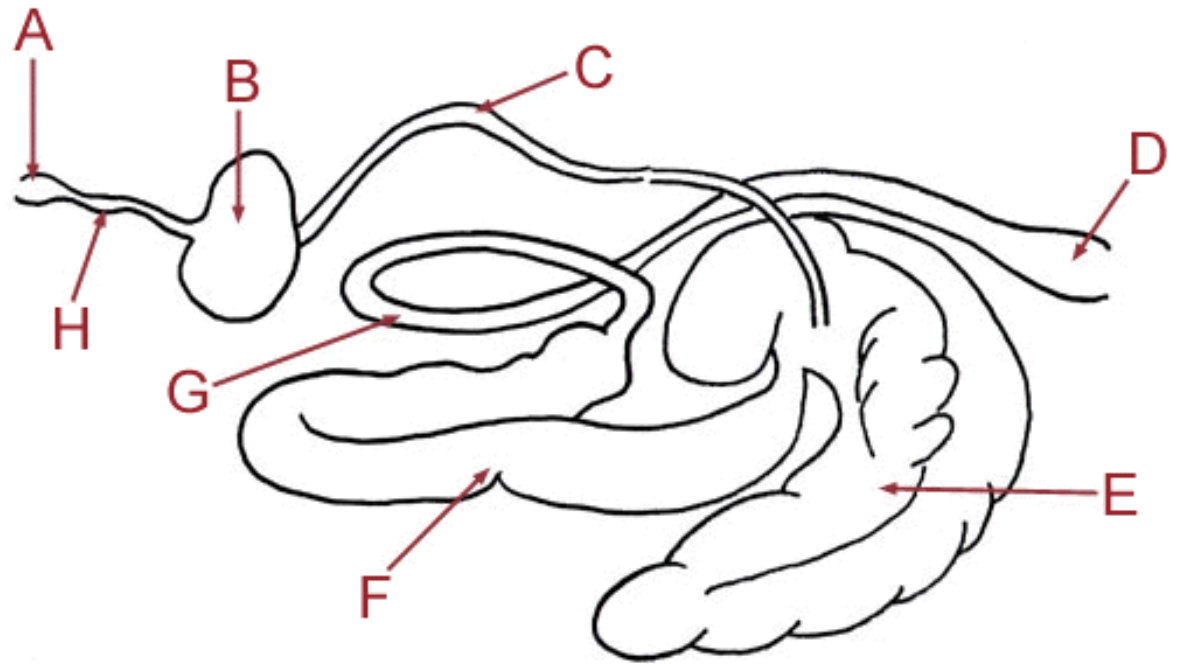
- A. Lethal white foal syndrome
- B. Hyperkalemic periodic paralysis
- C. Osteochondrosis
- D. Rhabdomyolysis





16. What is the rate of passage of the structure labeled “D?”

- A. 15 minutes
- B. 30 minutes
- C. 2 hours
- D. Immediate**





# 17. What color would a South American horseman consider this horse?

- A. Ruano
- B. Tostado
- C. Alazan
- D. Rosadero



18. What four-beat, lateral gait is this horse performing?

- A. Running walk
- B. Slow gait
- C. Amble
- D. Rack



# 19. What piece of equipment is pictured?

- A. Running martingale
- B. Standing martingale
- C. German martingale
- D. Irish martingale





20. If a mare displays this behavior towards a stallion, what period of the estrous cycle is she most likely in?

- A. Anestrus
- B. Diestrus**
- C. Estrus
- D. Metestrus



# 21. What registry would be the best fit for this equine?

- A. American Council of Spotted Asses
- B. American Mule Association
- C. American Mustang and Burro Association
- D. American Miniature Horse Association





## 22. What grain is pictured below?

- A. Sorghum
- B. Rye
- C. Wheat
- D. Barley



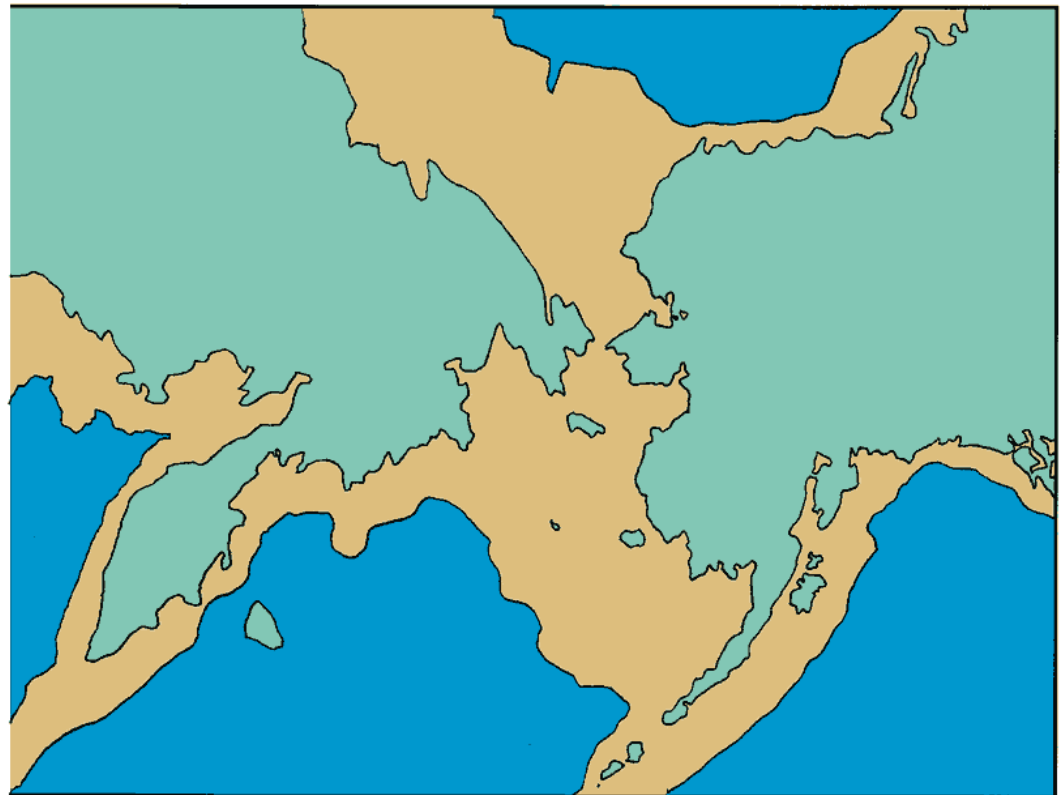
23. Which description does **not** match the eye pictured?

- A. Wall eye
- B. Haw eye
- C. Crockery eye
- D. China eye



24. Scientists hypothesize that the horse migrated across a land bridge (in beige) that connected Alaska to what region?

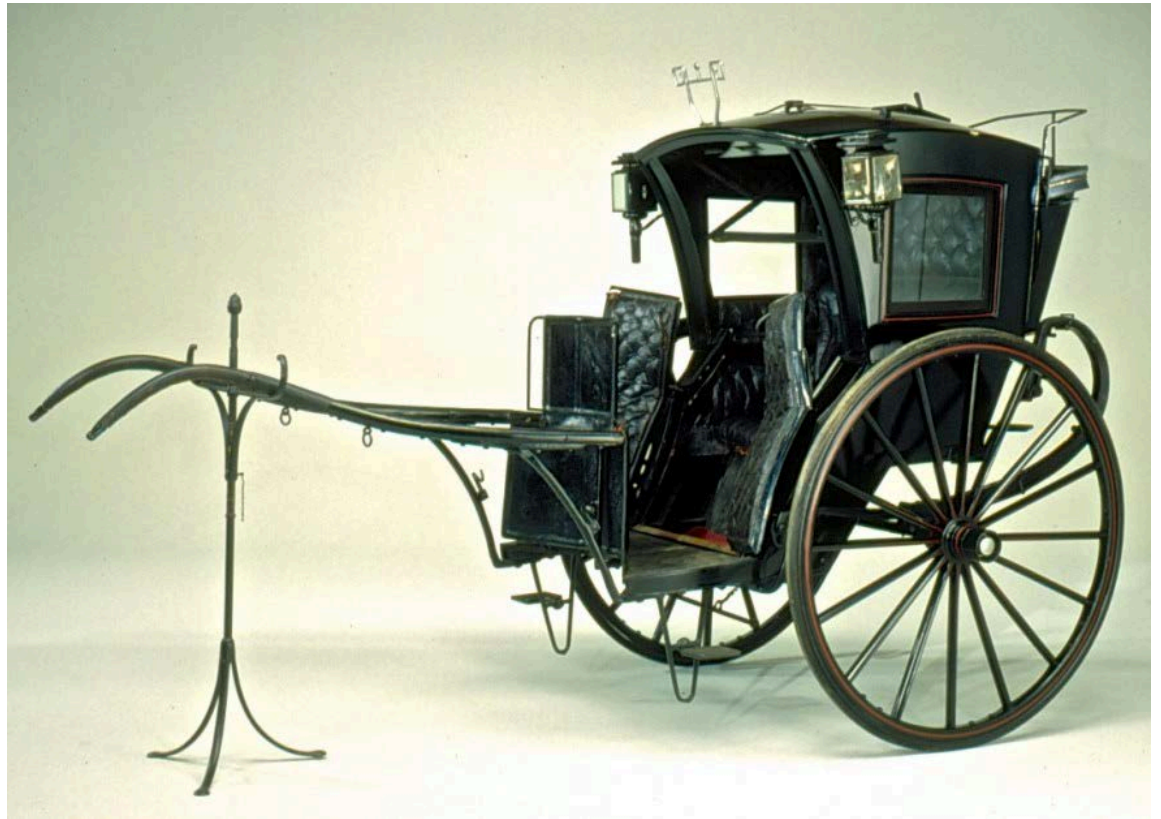
- A. Middle East
- B. Mongolia
- C. Siberia
- D. Urals





## 25. What type of carriage is pictured?

- A. Stage coach
- B. Berlin
- C. D'orsay
- D. Hansom cab**





## 26. Which forage is pictured below?

- A. Kentucky bluegrass
- B. Timothy**
- C. Orchard grass
- D. Tall fescue



27. Which is not a term associated with the event pictured?

- A. Volte
- B. Ballatade
- C. Pirouette
- D. Piaffe



## 28. What behavior is pictured?

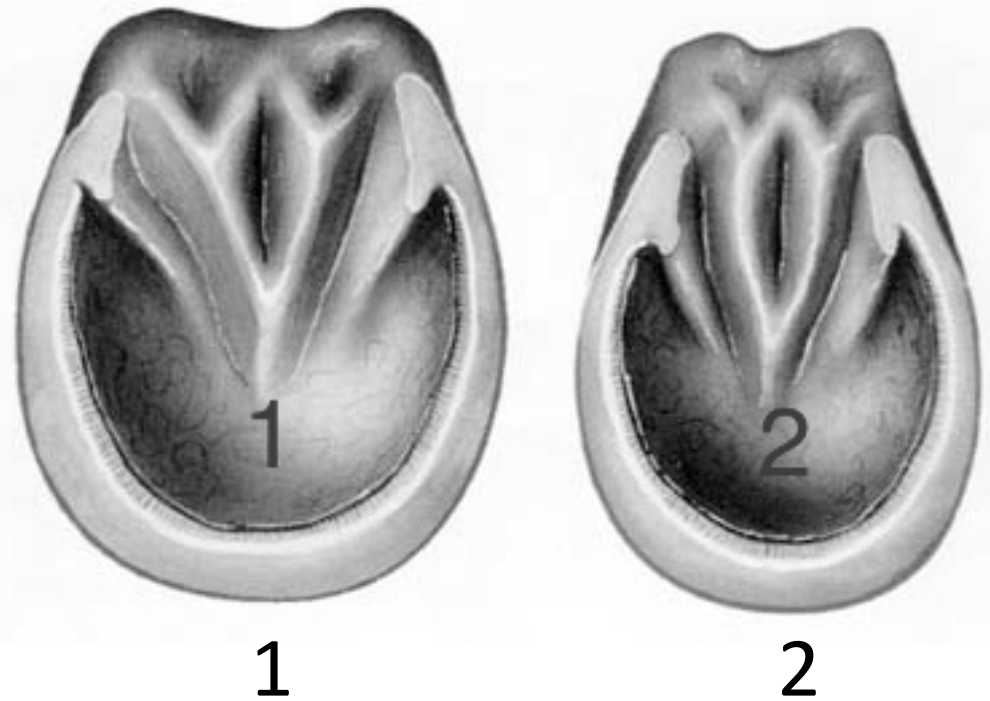
- A. Contactual
- B. Et-Epimeletic
- C. Agnostic
- D. Investigative





## 29. What defect does the hoof labeled “2” have?

- A. Corns
- B. Contracted heels**
- C. Founder
- D. There is no defect pictured





30. What gene controlled the coloring of this horse's points?

A. A

B. D

C. E

D. RN



31. Approximately how fast is this horse moving?

- A. 8 mph
- B. 12 mph**
- C. 20 mph
- D. 30 mph





## 32. What muscle is the arrow pointing to?

- A. Femoral biceps
- B. Latissimus dorsi
- C. Gastrocnemius
- D. Deltoid



### 33. What poisonous plant is pictured?

- A. Larkspur
- B. Foxglove
- C. Monkshood
- D. Buttercup





# 34. What event is pictured?

- A. Pleasure driving
- B. Recreational driving
- C. Marathon**
- D. Endurance driving



35. This mare had a foal 1 month ago and is now lactating. What percentage of her diet should be protein?

- A. 8%
- B. 10%
- C. 13%
- D. 16%



36. What is the scientific name for this condition?

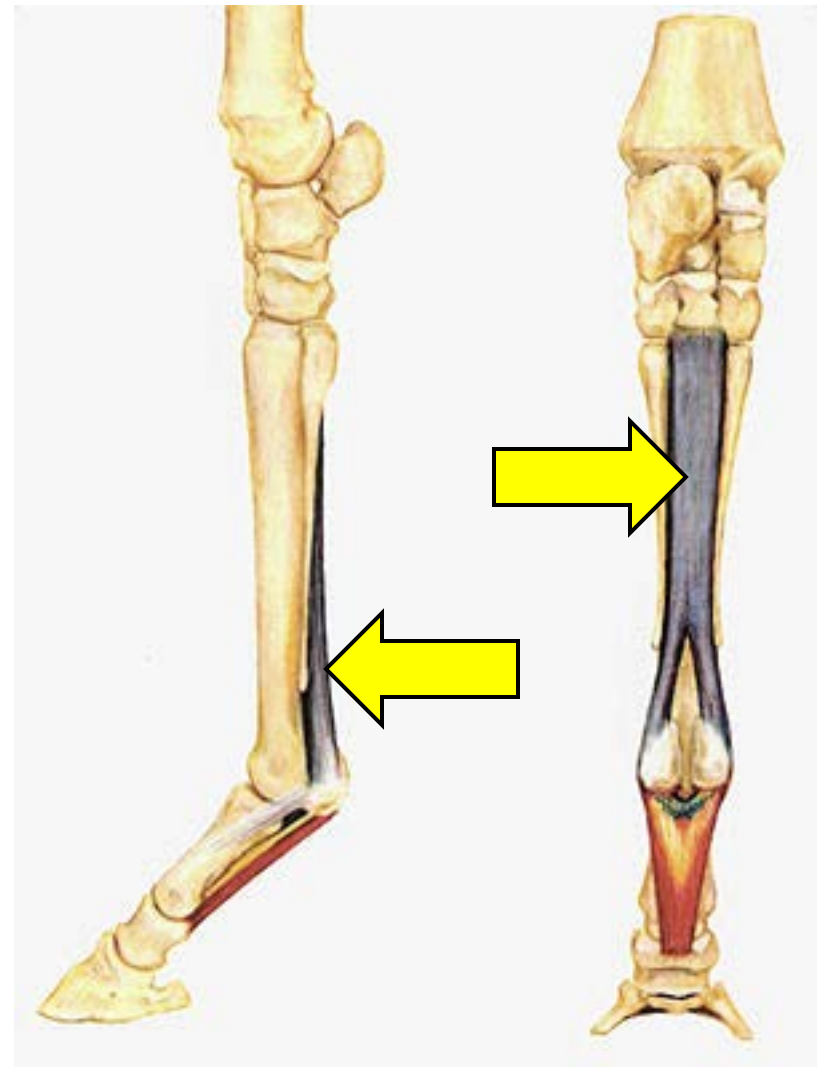
- A. Tricophytosis
- B. Urticaria**
- C. Thumps
- D. Sarcoma





# 37. What structure is the arrow pointing to?

- A. **Suspensory ligament**
- B. Plantar ligament
- C. Deep digital flexor tendon
- D. Common digital extensor tendon





# 38. This color is the result of what?

- A. Single dilution of chestnut
- B. Double dilution of black
- C. Double dilution of bay
- D. Single dilution of bay



39. What was the original name for this breed of horse?

- A. Perce Horse
- B. Native Horse
- C. Palouse Horse
- D. Spotted Horse



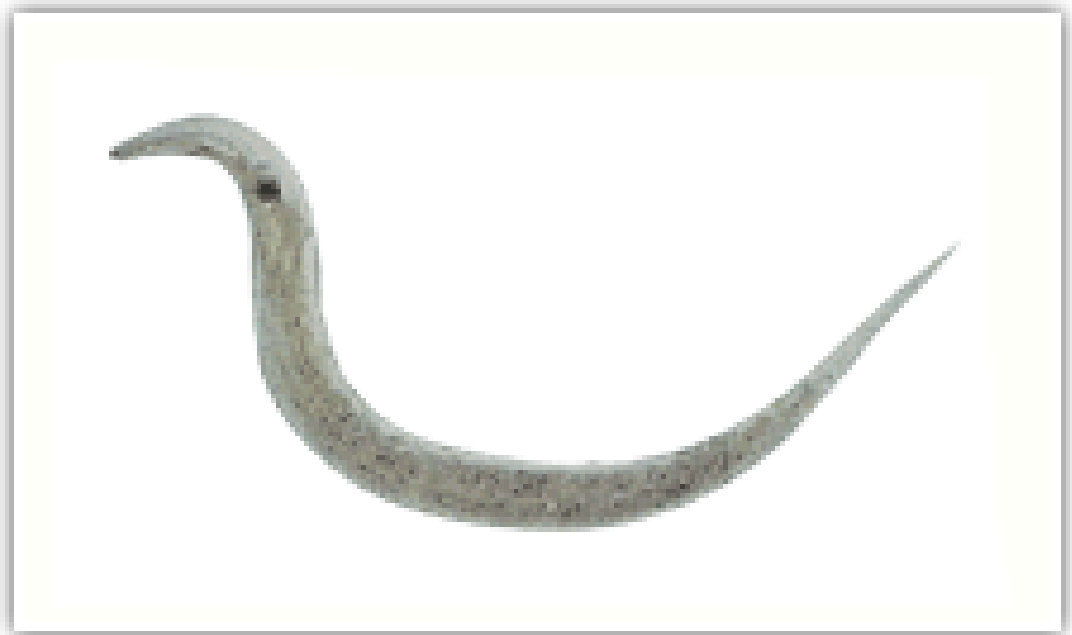
40. What model artificial vagina is pictured?

- A. Colorado
- B. Fujihara
- C. Nebraska
- D. Missouri



# 41. What parasite is pictured?

- A. Strongyles
- B. Strongyloides**
- C. Ascarids
- D. Parascaris equorum

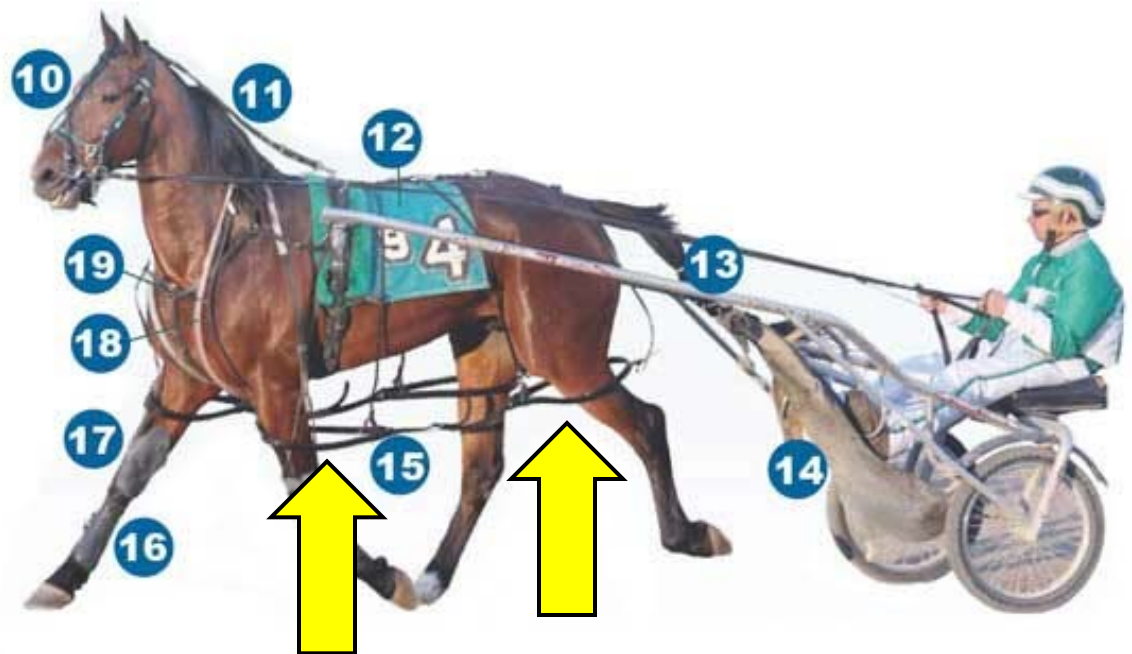


*This photo appears courtesy of Ohio State University*



42. What is the slang term for the piece of tack labeled “15” and marked by arrows?

- A. Indiana pants
- B. Gullet rolls
- C. Figure eight hobbles
- D. Racing boots



43. What piece of equipment is pictured?

- A. Bib
- B. Bit guard
- C. Chifney bit
- D. Irish martingale



# 44. This horse is suffering from what condition?

- A. Equine protozoal myeloencephalitis
- B. Neonatal isoerythrolysis
- C. Hereditary equine regional dermal asthenia
- D. Cyanocobalamin



# 45. What is the large electronic display at a racetrack called?

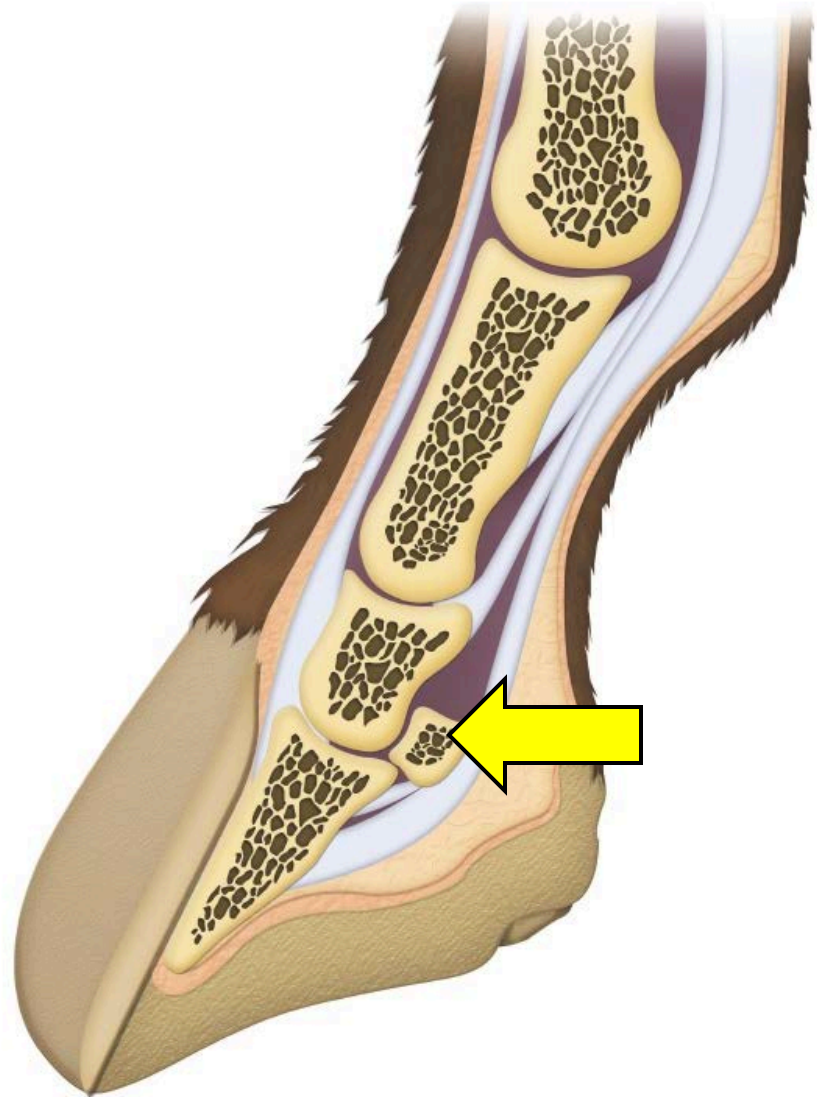
- A. Scoreboard
- B. Jumbotron
- C. Tote board
- D. Handicap board





46. What bone is the arrow pointing to?

- A. Distal sesamoid
- B. Long pastern
- C. Coffin bone
- D. Proximal sesamoid



47. Name the country of origin of this breed known for its jumping ability.

- A. Scotland
- B. England
- C. Ireland
- D. Africa



48. Name the type of girth pictured.

A. Balding

B. Atherstone

C. Lampwick

D. Straight



# 49. What is this product used for?



- A. A supplement
- B. A treat
- C. A calming substance
- D. A de-wormer



50. The two body parts marked “1” and “2” should have what slope?

- A. Both should be  $45^\circ$
- B. 1 should be  $45^\circ$   
2 should be  $60^\circ$
- C. 1 should be  $60^\circ$   
2 should be  $45^\circ$
- D. Both should be  $60^\circ$

