

**2012 New York State Junior 4-H Horse Bowl  
Extra Toss Up Questions**

1. Q. Identify **two** of the three anatomical structures found in the umbilical cord.  
  
A. Artery (two), vein and urachus  
  
S. Kainer plate 72                      500/4
  
2. Q. A horse with chronic renal failure would require a diet that has less of certain nutrients. Name **two** of these nutrients.  
  
A. Protein, calcium, phosphorus  
  
S. Lewis p. 296                      700/4
  
3. Q. Identify **two** body systems where you would find the wave-like projections on cells known as cilia.  
  
A. Respiratory and reproductive (mare) systems  
  
S. Kainer plate 67, 70                      450/480/5
  
4. Q. When your horse is carrying a pack load down a steep grade, what **two** items of tack will need to be adjusted or pulled tighter?  
  
A. Breeching and cinch  
  
S. YLM 118-1L                      1020/3
  
5. Q. Identify three ways to hot process grains.  
  
A. Steam flaking, crimping, popping, micronizing, extruding or pelleting  
  
S. Lewis p. 76