Example of Past Contest Materials

National 4-H Livestock Skillathon
Commercial Wool Judging Class Questions

Rank the wool fleeces:

1st ______ 2nd ______ 3rd ______ 4th ______

Put the number of the fleece that best answers the question in the blank space to the left of each question.

_____ 1. Which fleece will yield the most pounds of clean wool?
_____ 2. Which fleece has the finest fiber diameter?
_____ 3. Which fleece is the shortest stapled (fiber length)?
_____ 4. Between fleece 1 and 3, which has less grease?
_____ 5. Between fleece 1 and 3, which is finer?

Hay Purchasing/Evaluation

Rank this hay in the order that you would feed it as a supplemental protein source to 1300 lb. mature black baldy cows grazing corn stalks during mid-gestation. Feeding conditions are during late fall and early winter in the upper Midwest. This hay will be hand-fed to supply an extra half-pound of crude protein per cow per day.

1st _____ 2nd _____ 3rd _____ 4th _____

Forage Analysis

<table>
<thead>
<tr>
<th>Sample</th>
<th>Dry Matter Content</th>
<th>Crude Protein</th>
<th>ADF (%)</th>
<th>NDF (%)</th>
<th>TDN (%)</th>
<th>Price/ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>91%</td>
<td>11%</td>
<td>35%</td>
<td>47%</td>
<td>46%</td>
<td>$70</td>
</tr>
<tr>
<td>2</td>
<td>87%</td>
<td>21.0%</td>
<td>29%</td>
<td>38%</td>
<td>64%</td>
<td>$135</td>
</tr>
<tr>
<td>3</td>
<td>92%</td>
<td>7.5%</td>
<td>48%</td>
<td>58%</td>
<td>42%</td>
<td>$55</td>
</tr>
<tr>
<td>4</td>
<td>89%</td>
<td>18.0%</td>
<td>34%</td>
<td>45%</td>
<td>52%</td>
<td>$90</td>
</tr>
</tbody>
</table>

Questions

1) Which hay would require the most labor to hand feed to deliver a half-pound of crude protein?
2) Which hay contains the highest percentage of alfalfa leaves?
3) Which hay is most like corn stalks in its crude protein content?
4) How many pounds of sample 2 would it take to deliver a half-pound of crude protein? A) 1.51bs  
   B) 2.51bs  C) 4.01bs  D) 5.01bs
5) Which of the grass hay samples appears to be less mature?

Directions and Answer Sheet for 2006 National 4-H Livestock Skillathon Contest
Meat and Carcass Team Skillathon Activity

Directions: This activity consists of three tasks. Task 1 is to rank the retail class (50 points). Task 2 is to determine the fat thickness and rib eye area measurement on the pictured, determine the yield grade for a beef carcass and determine the quality grade based on the two pictures (assume the carcass is “A” maturity). Place your answer in the blank provided.

Task 1: Ranking: ______ - ______ - ______ - ______ (50 points)

Answer | Score
--------|------

Task 2: A) Fat Thickness measurement (5 points) (to nearest .05; Ex. .20, .25, .30):
   B) Rib Eye Area measurement (5 points) (to nearest .1; Ex. 6.8, 10.3, 15.4):
   C) Yield Grade determination (5 points) (to nearest .1; Ex. 2.3, 3.2, 3.3):
Select one of the following quality grades to place in the blank:
   High Prime  High Choice  High Select  High Standard
   Average Prime  Average Choice  Low Select  Low Standard
   Low Prime  Low Choice

D) Quality Grade determination (1) (5 points)

E) Quality Grade determination (2) (5 points)

Answer | Score