National 4-H Livestock Skillathon Contest Nutrition Station: Team Activity

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Your ⁻	Team Tasks:	
A.	Identify the following feeds and whether they are considered a forage/ (F) concentrate (C), protein supplement (P) or vitamin/mineral (M). points)	roughage, (20

Feed Identification:

Number	Feed Name	Description (F,C, P, or M)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Feed Analysis & Pricing Information:

Feed Number	Dry Matter	%CP	%TDN	Price
1	0.89	18.0	65	\$150/Ton
2	0.89	0.89 7.5 60 \$75/T		\$75/Ton
3	0.85	5.0	59	\$15/Ton
4	0.33	8.0	67	\$28/Ton
5	0.87	8.0	89	
6	0.89	13.3	77	
7	0.90	48.7	83	
8	0.30	29.5	112	
9	0.91	0.0	0	
10	0.97	0.0	0	

B. Ration Mixing:

Team Feeding Scenario:

You have 200 lb ewes that are in late gestation, currently in average condition and from which you expect approximately a 180% lamb crop. Select appropriate feeds from those above, weigh out the correct amount (as-fed basis) of each feed for a complete diet for one day that will meet one ewe's TDN, protein and dry matter intake needs.

- Assume that mineral needs will be met and balanced appropriately, so do not select any minerals for ingredients.
- Assume that you will be feeding at least some grain due to the limited rumen capacity of the late gestation ewe.
- Consider the overall cost of the ration.
- The table provides room for up to four ingredients. It may or may not be necessary to use four different ingredients.

When finished with the ration, your team will be expected to provide a brief explanation to judges regarding:

- the feeds you selected
- whether the ration meets the animal's needs
- if there could be any improvements or changes made in your ration
- how the cost of the ration compares to other potential rations
- other information you deem appropriate.

	DR'	Y MATTER BAS	SIS	AS-FED BASIS
Name of Ingredient	Lbs of Dry Matter of this ingredient in ration	Lbs of CP provided by this ingredient	Lbs of TDN provided by this ingredient	Lbs of Ingredient to Feed
Totals from all Ingredients Ewe Nutrient				
Requirements				
Difference between provided and required nutrients				

Scoring for this section: 80 points based on the following:

- 20 points for selection of appropriate ingredients
- 20 points for approximate correct amounts
- 40 points for check that ration meets nutrient needs and oral explanation

Ewe Nutrient					
Requirements					
	Ewe Wt.	TDN (Lbs/day)	CP (Lbs/day)	Ca	Р
Maint.	110	1.2	0.21	2.0	1.8
	132	1.3	0.23	2.3	2.1
	154	1.5	0.25	2.5	2.4
	176	1.6	0.27	2.7	2.8
	198	1.7	0.29	2.9	3.1
Flush-	110	2.1	0.33	5.3	2.6
ing	132	2.2	0.34	5.5	2.9
9	154	2.3	0.36	5.7	3.2
	176	2.5	0.38	5.9	3.6
	198	2.6	0.39	6.1	3.9
Early Gest.	110	1.5	0.25	2.9	2.1
	132	1.6	0.27	3.2	2.5
	154	1.7	0.29	3.5	2.9
	176	1.8	0.31	3.8	3.3
	198	1.9	0.33	4.1	3.6
Lata Coat	110	2.1	0.20	F 0	2.4
Late Gest	110	2.1	0.38	5.9	3.4
lo lamb	132	2.2	0.40	6.0	4.0
crop (< 130 - 150%)	154 176	2.3	0.42	6.2	4.5
(< 130 - 150%)	198	2.4	0.44	6.3	5.1 5.7
	196	2.5	0.47	6.4	5.7
L. Gest	110	2.4	0.43	6.2	3.4
hi lamb	132	2.6	0.45	6.9	4.0
crop	154	2.8	0.47	7.6	4.5
(175 - 225%)	176	2.9	0.49	8.3	5.1
,,	198	3.0	0.51	8.9	5.7
			-	-	
Lactating	110	3.0	0.67	8.9	6.1
singles	132	3.3	0.70	9.1	6.6
	154	3.6	0.73	9.3	7.0
	176	3.7	0.76	9.5	7.4
	198	3.8	0.78	9.6	7.8
Lactating	110	3.4	0.86	10.5	7.3
twins	132	3.7	0.89	10.7	7.7
LVVIIIO	154	4.0	0.89	11.0	8.1
	176	4.0	0.92	11.2	8.6
	198	4.6	0.90	11.4	9.0
	190	7.0	0.33	11.4	9.0