SENIOR TEAM PROBLEM

TEAM NAME:

TEAM MEMBERS:

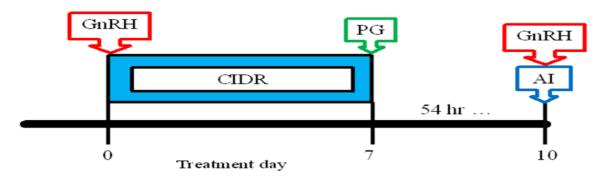
You own 100 head of replacement heifers that you intend to synchronize and AI breed the heifers one time before turning out 2, 15-month old bulls that will breed the heifers that did not conceive to our AI breeding. Your local Select Sires semen salesman has recommended that you use the CO-Synch + CIDR for your estrus synchronization program. Below is the cost of items that will be need for the CO-Synch program and the cost of your 2 new bulls that your purchased from the BCIA test station.

ltem		t per Bottle Package	Doses per Bottle or Package
OvaCyst (GnRH)	\$	44.40	20
Lutalyse (PG)	\$	57.40	20
CIDR	\$	108.00	10
Item	Cost per Heifer		
AI Technician Cost	\$	13.50	
Semen Cost	\$	18.00	
Cost of Preg Check per Cow	\$	5.75	
Bull Purchases	Am	ount	
Bull # 1	\$	4,200	
Bull # 2	\$	3,800	

Estrus Synchronization Program that you will utilize to breed the heifers:

CO-Synch + CIDR

Perform TAI at 54 hr after PG with GnRH at TAI



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- 1. What is the total cost of completing the estrus synchronization program and artificial insemination, on a perheifer basis? (Round to the nearest cent)
- 2. If 60% of the heifers have conceived to our AI breeding and 10% of the heifers are open at preg check, how many heifers did your herd bulls breed? (Round to the nearest whole number)
- 3. If the bulls are utilized for 4 years before being sold for a salvage value of \$1700 each, what is the cost, per year; of the bulls you purchased (not including feed cost)?
- 4. Assuming that you will be using the herd bulls for 4 years, what is your cost per heifer that is bred naturally this year? (Round to the nearest cent)
- 5. What are the total breeding costs for 2014? (Round to the nearest cent)
- 6. How much are your breeding costs on a per heifer basis (including those that were AI bred, bull bred and those that did not breed)? (Round to the nearest cent)

Utilize the following information for the questions below:

Feed Cost of Heifers from Weaning to Preg Check: \$20000

- 7. What is the feed cost, on a per head basis, for the heifers that are confirmed pregnant and fed from weaning to calving? (Round to the nearest cent)
- 8. What is the feed cost, on a per head basis, of the heifers that are sold as open heifers right after the preg check? (Round to the nearest cent)
- 9. Assuming the cow costs associated with the dam of the replacement heifers are \$600, how much do the open heifers need to bring to breakeven if they are sold right after being pregnancy checked? (Round to the nearest cent)
- 10. Assuming the cow costs associated with the dam of the replacement heifers are \$600, what is the breakeven price for each calf sold at weaning, assuming a 2% death loss in the calves that are born (remember only 90% of the cows actually bred; the others were sold at cull cow price and should not be included in this calculation)? (Round to the nearest cent)

Feed Cost of Heifers from Preg Check to Calving: \$18000

