

Team Name _____

Team Number _____

2005 State Fair Stockmens Contest – Senior Team Problem

You have a group of weaned heifers that weigh an average of 550 pounds at 8 months. You expect them to reach a mature weight of 1200 pounds.

1. The weaned calves needed to be dewormed. If the dewormer says to treat at a rate of 4 ml per hundredweight, what dose of dewormer does the average calf get?

ml,
0 decimal

2. If you want heifers to weigh 65% of their mature size at the time of breeding, what is the target breeding weight of these heifers? Answer in Pounds (0 decimals)

3. If you wean at 8 months, and want to breed at 13.5 months, what is the required average daily gain of the heifers? (Assume a month is 30 days)

Pounds,
2 Decimals

4. You want to synchronize estrous by using MGA, at the rate of 0.5 mg per head daily. You can purchase a premix which contains 1 gram of MGA per ton. How much of this premix do you feed to each heifer each day? (a ton is 2000 pounds)

Answer in pounds, 1 decimal

5. You will feed each heifer 5 pounds of feed daily. How much corn do you add to the premix used in 4 above to feed each heifer?

Lb (1 decimal)

6. You will breed artificially, and expect a 60% pregnancy rate from each AI breeding. After 2 AI sessions, what percentage of the heifers do you expect to be pregnant?

Round to
whole %

7. You put a cleanup bull out with the heifers after you have completed the 2 AI sessions. What percentage of the heifers bred to the cleanup bull do you expect to calve in the first 21 days of the calving season?

Percent (1 decimal)

8. During pregnancy you want to feed a mixture of corn silage and soybean meal. If corn silage is 40% dry matter, and we want to feed 18 pounds of dry matter, how much corn silage does each heifer receive?

Pounds,
0
Decimals

9. If the corn silage is 7.5% protein on a dry basis, how much protein is each heifer eating from the 18 pounds of dry matter?

Pounds,
2
Decimals

10. Each heifer needs 2.3 pounds of protein daily. How much soybean meal must be fed along with the corn silage to provide this amount of total protein in the diet if soybean meal is 47% protein?

Pounds,
1 Decimal