

MILK QUALITY AND PRODUCTS

Additional Example Questions for Minnesota for 2025

Select the one best answer for each question

PROBLEM-SOLVING

For questions 1-6, assume that:

BBB dairy consists of 2000 lactating cows and 400 dry cows. The herd produced 5,164,600 lbs of milk from March 1 to March 31. The March average butterfat test was 4.3 %, and the protein test was 3.3 %. The milk check for March was \$1,111,938.30.

1. What percentage of the herd is dry?
 - A. 0.17%
 - B. 16.67%
 - C. 18.90%
 - D. 20.00%
2. On average, how much milk did BBB dairy ship every day?
 - A. 1,666 cwt
 - B. 166,600 gallons
 - C. 2000 lbs.
 - D. 5,164 tons
3. What is the average daily milk production per milking cow?
 - A. 166.6 lbs./day
 - B. 69.4 lbs./
 - C. 75.5 lbs./day
 - D. 83.3 lbs./day
4. How many pounds of butterfat did BBB dairy sell in March?
 - A. 222,078 lbs.
 - B. 2,220,778 lbs.
 - C. 22,207,780 lbs.
 - D. 8,600 lbs.
5. If butter is 80% butterfat, how many pounds of butter could be made from the milk sold by BBB dairy?
 - A. 277,597 lbs.
 - B. 177,663 lbs.
 - C. 177,66 lbs.
 - D. 300,000 lbs.

6. What was the average milk price per cwt?
- A. 0.22 \$/cwt
 - B. 21.53 \$/cwt
 - C. 2.153 \$/cwt
 - D. 215.30 \$.cwt
7. How many 500 lb. barrels of cheese can be made from 142 tons of cheese?
- A. 142
 - B. 284
 - C. 568
 - D. 710
8. Calculate the value of butterfat when the price for butter is \$1.74/lb. the make allowance is \$0.17/lb. and the yield factor is 1.21.
- Formula: $(\text{price of butter} - \text{make allowance})/\text{yield factor} = \text{value/lb. of butterfat}$
 (_____ - _____) / _____ = _____ /lb. butterfat
- A. \$1.11
 - B. \$1.30
 - C. \$1.72
 - D. \$12.97
9. Assume milk weighs 8.3 lbs. per gallon. When calibrating a bulk tank, if one must add 4 gallons of water to reach the next mark on the measuring stick, what, to the nearest pound, is the increment in milk weight between the marks?
- A. 2 lbs.
 - B. 8.3 lbs.
 - C. 33 lbs.
 - D. 34 lbs.
10. The specific gravity of water is 1.0 and it weighs 8.33 pounds per gallon. The average specific gravity of skim milk is 1.036. How much does skim milk weigh per gallon?
- A. 8.28 pounds
 - B. 8.58 pounds
 - C. 8.60 pounds
 - D. 8.63 pounds

PROBLEM SOLVING KEY

Question	Answer
1.	B
2.	A
3.	D
4.	A
5.	A
6.	B
7.	C
8.	B
9.	C
10.	D
11.	
12.	
13.	
14.	
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23.	

