Watch the video and complete the following. https://www.playposit.com/play/842269/Artificial-Selection-LS45-155540

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_ Period: \_\_\_\_

1. What makes these cows worth so much money?

\_\_ Perfect udders

\_\_ Pristine lineages

\_\_ Very high genetic scores

\_\_ Perfect BMI score

\_\_ Incredible hooves

1. What has Jerry been doing on his family farm since he was a teenager?

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1. Jerry’s genetic program went from 3-5 cows born per year to \_\_\_\_\_\_ cows born per year.
2. If each cow is sold for $20,000, why is Jerry not making a lot of money on the cows he sells?

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1. What information is Jerry wanting to learn from a genetic test performed on his cows?

\_\_ Milk Production

\_\_ Weight

\_\_ Fat content in milk

\_\_ Life expectancy

\_\_ Fertility

\_\_ Eye color

1. Jerry has 300 cows being milked on his farm, but how many does he consider to be “elite”?

\_\_ 300 \_\_ 100 \_\_ 10 \_\_ 5

1. How many calves can Jerry get from his best cows?

\_\_ One calf per cow per year

\_\_ One calf per cow per month

\_\_ Ten calves per cow per year

\_\_ Ten calves per cow per month

1. What has helped the amount of milk produced in the U.S. increase when the number of cows in the U.S. has decreased?

\_\_ More frequent milking of cows

\_\_ Quality of Feed has improved

\_\_ Comfort of cow has improved

\_\_ Amount of cows born has increased

\_\_ Health care for cows has improved

\_\_ Genetic potential has improved

1. What do you think the environmental impact would be for 20million cows?

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1. What traits would farmers consider desirable in dairy cows?

\_\_ Milk production \_\_ healthy size and weight

\_\_ Fertility \_\_ Tail length