



4-H Dairy

Name: _____ 4-H Club _____

Reproduction Critical Thinking Problem: Use the information below to complete the Punnett Square on polled traits using PP or Pp.

Given information: The cow is heterozygous with the polled trait.

The bull is heterozygous with the polled trait.

What percentage of the offspring will be polled? _____

What will be the genotype of the polled offspring? _____

What percentage of the offspring will have horns? _____

What will be the genotype of the horned offspring? _____

Nutrition, Reproduction & Manure Management - Fill in the blanks: Please write the correct answer on the line provided to correctly complete the statement.

1. Differentiate genotype from phenotype. _____

2. What are the 4 compartments of the cows' stomach and what happens in each compartment?

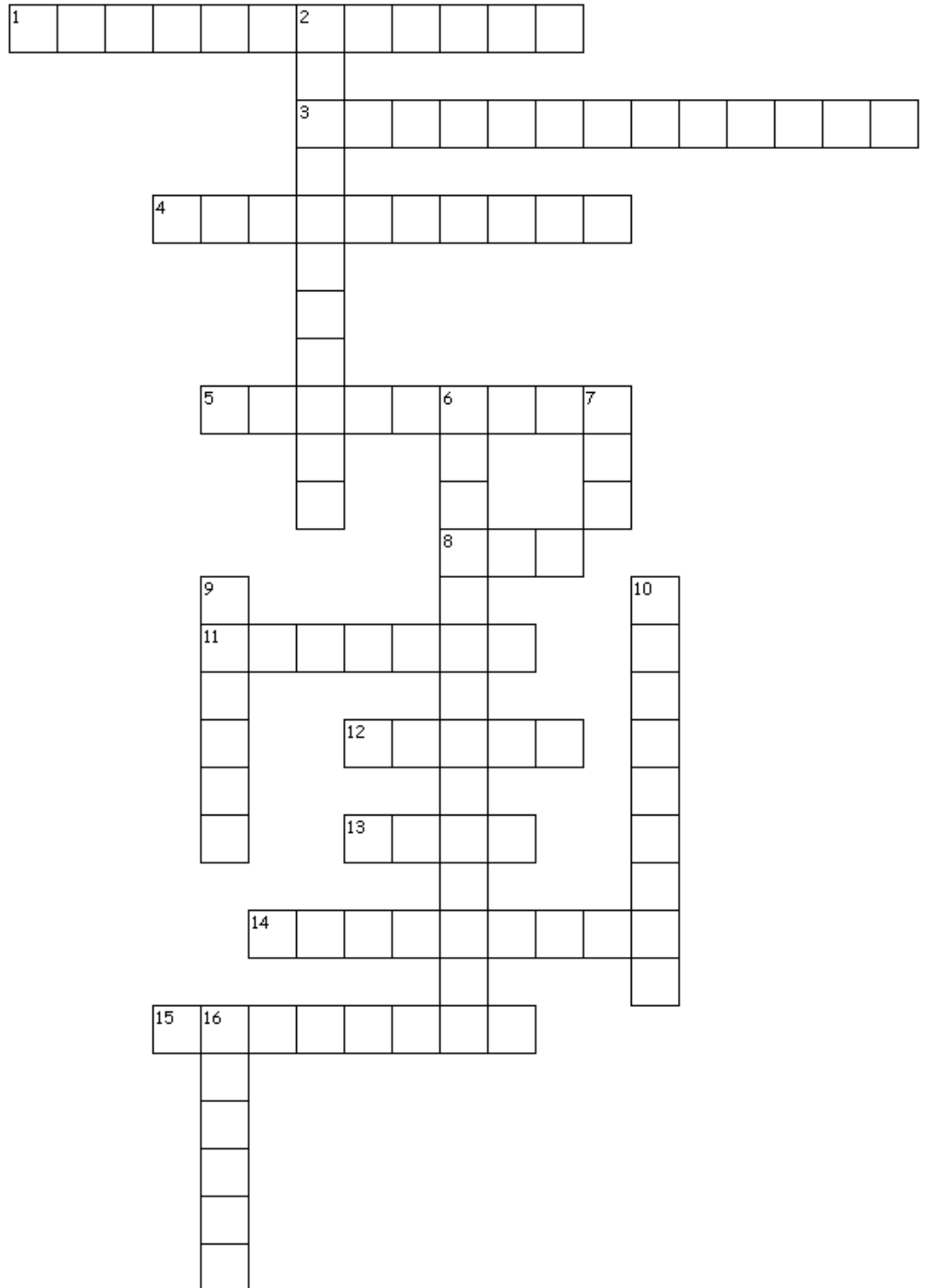
3. What does the Clean Air Act of 1990 do? _____

4. A lactating dairy cow excretes how much feces and urine per day? _____

Nutrition, Reproduction and Manure Management Cross Word Puzzle: Write the correct answer in the spaces provided for each phrase.

Across

1. manure and water mixture with less than 10% of solids
3. bacterial infection which causes abortion
4. feeds with forages and concentrates
5. land areas that catch rain or snow and drain to specific water sources
8. animals confined for 45 days or more within a twelve month period
11. geographic area responsible for emitting 75% air pollution reaching a body of water
12. enforces the clean water act
13. handle complaints against agricultural operations impacting water quality
14. relating the size to the land base to protect the water supply
15. live in the rumen



Down

2. scraping of manure and stockpiling for compost
6. seepage from silage storage areas
7. handles fish kill and stream litter
9. daily food amount nutritionally balanced
10. synthesized by rumen microorganisms and water-soluble
16. prevent surface runoff with liquid manure

Answers to these questions can be found in the "Dairy Resource Handbook" 4-H 127R