



4-H Goat Project

Name: _____ 4-H Club _____

Reproductive Management and Genetics

1. A successful reproductive program in a goat herd requires managers to properly detect estrus, identify some of the obvious signs of estrus: _____

2. Match the following:

- _____ Embryo
- _____ Estrus
- _____ Fetus
- _____ Gonad
- _____ Parturition
- _____ Epididymis
- _____ Urethra
- _____ Vas Deferens
- _____ Cervix
- _____ Vulva

- A. Duct that carries the sperm from the epididymis
- B. Act of giving birth to young
- C. A newly fertilized egg
- D. Muscle that closes off the uterus
- E. Duct through which the sperm and urine travel
- F. The unborn lamb from embryo to birth
- G. The external part of the reproductive system
- H. Germ cell producing tissue
- I. Period that the female will allow the male to mate
- J. Duct that collects and stores sperm



3. The birth of an animal where the rear legs are coming first instead of head or front feet first is known as a _____ birth. Is assistance needed with this type of birth? _____

4. Where does an animal get its genes from?
_____ % from parents _____ % from grandparents _____ % great grandparents

5. Find the genotype and phenotype of the following: Doe → Rr Buck → rr

| | |
|--|--|
| | |
| | |

Genotype:

Phenotype:

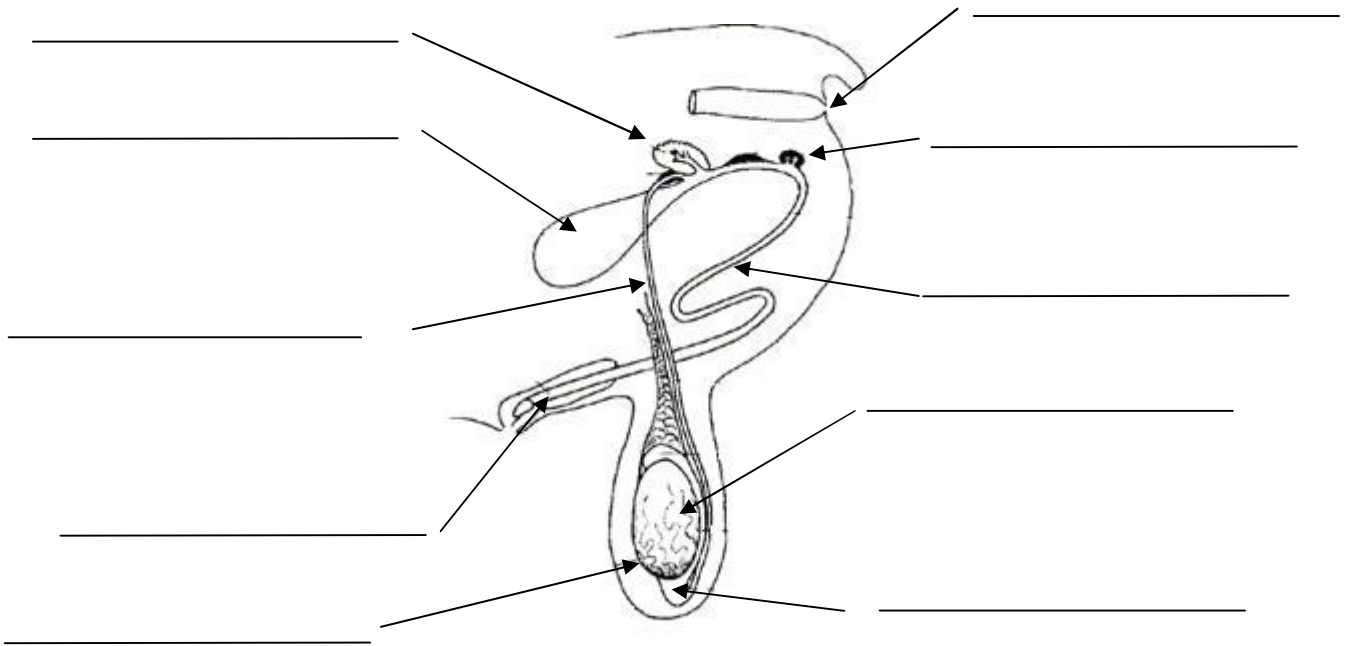


10. Does that are healthy and well managed nutritionally can be bred when? _____

11. Identify the correct Reproductive Term:

- a. Egg produced by the ovary _____
- b. Growth period when reproductive system reaches maturity _____
- c. Release of a mature egg from the follicle _____
- d. Discharge of semen _____
- e. Period of time from the end of one heat cycle to the next _____
- f. Specific chemical messengers secreted by the glands _____
- g. The length of the period between fertilization and lambing _____
- h. An external pouch of skin that covers the testicles _____

12. Identify the Following:



13. Use logic to determine the appropriate time to breed a doelings. _____

14. Where does an animal get its genes from?

_____ % from parents _____ % from grandparents _____ % great grandparents

15. This is a paper showing the goats "family tree", birth information, and owner. _____

Horses, cats, and dogs are not required to complete numbers 2 and 3.

Animals Owned

| Animals Name | Breed | Sex | Date of Birth | Date Obtained |
|--------------|-------|-----|---------------|---------------|
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1. Expenses for the Animal(s)

Animal(s) *if purchased* \$ _____
 Feed \$ _____
 Bedding \$ _____
 Vet \$ _____

Total Expenses \$ _____

2. Income from Animal(s) *market animals sold* \$ _____

Estimated value of animal to be sold in 4-H Auction \$ _____

Total Income \$ _____

3. Value of breeding animals

Value of your cat or dog

Asset Value \$ _____

\$ _____

Net Profit / Loss \$ _____

Member Signature: _____

Parent Signature: _____

Leader Signature: _____