

NAME _____ Period _____ Date _____

----- GENETICS & HEREDITY -----

GENETICS

HEREDITY

What characteristics are affected by genetics?

Draw a diagram of a cell. Label and define the parts.

How many chromosomes are there in each cell? _____ or _____ pairs

How many chromosomes are in the reproductive or GERM cells? _____

• MITOSIS-

• MEIOSIS-

_____ is the union of an OVUM and the SPERM.

Which parent determines the gender of a child? _____

Draw a diagram to illustrate this concept.

Sex Chromosomes: X X = Female X Y = Male

Example:

- DOMINANT gene-
- RECESSIVE gene-
- CARRIER

2 DOMINATE =
2 RECESSIVE =
1 DOMINATE + 1 RECESSIVE =

ZYGOT-

MONOZYGOTE- _____ twins

DIZYGOT- _____ twins

MULTIPLE BIRTHS-

CONJOINED or SIAMESE TWINS-

What 4 factors may contribute to multiple births:

- 1.
- 2.
- 3.
- 4.

The likelihood of multiple pregnancies in United States:

Twins: Blacks- 1 in _____ Whites- 1 in _____

Triplets: 1 in _____

Quadruplets: 1 in _____

_____ - _____ or _____ - _____: When an X-gene from the mother is faulty. There is a 50/50 chance of the child inheriting the disorder.

_____: When a group of signs and symptoms occur together and characterize a particular problem.

_____: A condition that is present at birth.

_____: Interaction of GENES with other genes
OR with ENVIRONMENTAL factors.

_____: The fertilized egg cell that contains chromosomes in an abnormal number, structure or arrangement.