

NAME:

PERIOD:

DATE:

Genetics Vocabulary and Punnett Square Practice

PART ONE: Matching. – Each is used only once. Pick the best answers.

- | | |
|---|--------------------------|
| 1. _____ alleles that only show up if paired with one like them | A. gene |
| 2. _____ a characteristic that is based on your DNA | B. multiple allele trait |
| 3. _____ certain genders are more likely to have a phenotype | C. trait |
| 4. _____ having two different alleles | D. genotype |
| 5. _____ the way a trait shows up for you | E. phenotype |
| 6. _____ a piece of DNA with code for one trait | F. homozygous |
| 7. _____ the alleles you have for a trait | G. heterozygous |
| 8. _____ when two alleles both try to show up at the same time | H. incomplete dominance |
| 9. _____ piece of information found in a gene | I. polygenic trait |
| 10. _____ these alleles “show up” in favor of others | J. dominant |
| 11. _____ having two of the exact same alleles | K. recessive |
| 12. _____ a trait determined by more than one gene | L. sex-linked trait |
| 13. _____ a trait with more than two alleles | M. allele |

PART TWO: Punnett Squares. Read. Do. Put % of each possible offspring. Answer ?'s.

14. B – no banana allergy
b – allergic to bananas

parents: Bb and Bb



? Are the parents **heterozygous** or **homozygous**?

15. W – white fur
g – gray fur

parents: Wg and WW

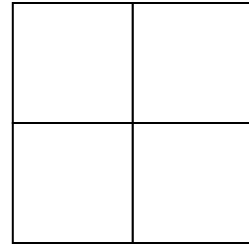
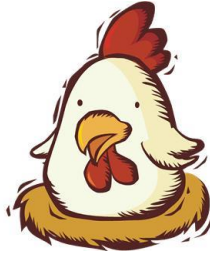


? Is **white fur** or **gray fur** the dominant allele?



16. W – lays white eggs
b – lays brown eggs

parents: Wb and bb

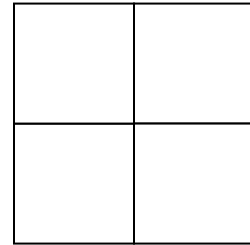
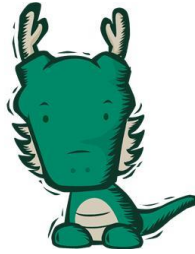


? Is **white egg** or **brown egg** the recessive allele?

17. R – red dragon
B – black dragon
w – white dragon
g – green dragon
b – blue dragon

R masks B
b masks w
b masks g
g masks w

parents: Rg and bw

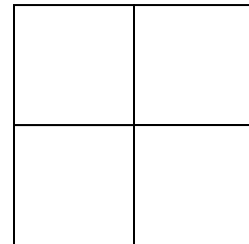


? Does “**masks**” mean, “**covers up**” or “**mixes with**” ?

18. B – black fur
W – white fur
b – brown fur

B and **W** are incompletely dominant and are expressed as **gray fur**

parents: Bb and Wb

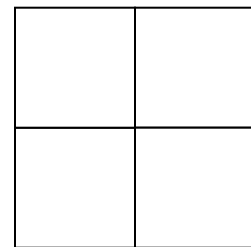


? In this problem is fur color... **a polygenic trait** or **a multiple allele trait**?

19. W – white fleece
B – black fleece

W and **B** are incompletely dominant and are expressed as **gray fleece**

parents: WW and BB



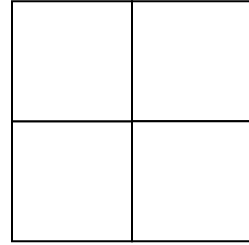
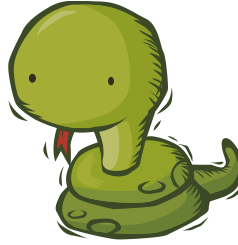
? Is that sheep cute or what? **OMG Cute!** or “**or what**”



20. B – brown snake
y – yellow snake
g – green snake

y and g are incompletely dominant and are expressed as **chartreuse snake**

parents: yg and yg

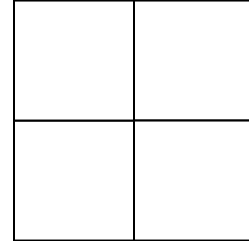


? What is the **trait** in this problem? **snake color** or **chartreuse snake**

21. O – orange fur
w – white fur
b – black fur

w and b are incompletely dominant and are expressed as **gray fur**

parents: Ow and Ob



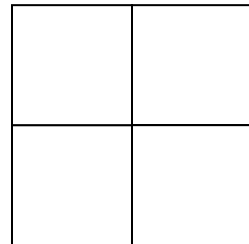
? What is the most common **phenotype** in this problem? **gray** or **orange**

22. X^c – female with c for colorblind
X – female (normal)
Y – male

X masks X^c to express **normal vision**
 X^c masks Y to express **colorblindness**

any two X combination = female
any X with a Y = male

Parents: X^cX and X^cY



? Is this problem about a **polygenic trait** or a **sex-linked trait**?



23. X^b – female with ^b for baldness
 X – female (normal)
 Y – male

X masks X^b to express **normal hair**
 X^b masks Y to express **baldness**

any two X combination = female
any X with a Y = male

Parents: X^bX and XY



? In general, who has a greater chance to be bald? **male pigs** or **female pigs**

24. X^c – female with ^c for chocolate milk
 X – female (normal)
 Y – male

X masks X^c to express **white milk**
 Y masks any X to express **no milk**

any two X combination = female
any X with a Y = male

Parents: X^cX and X^cY



? What is the **genotype** of the mom cow in the problem? X^cX or X^cY