Genetics: the format for success

Vocabulary:

1. Phenotype – the physical appearance of the organism (TALL)
2. Genotype – the actual genes of the organism has for that trait (TT)
3. Dominant – the allele that will be shown over another (capital letter for symbol)
4. Recessive – the allele that will be hidden by the dominant one (lowercase letter for symbol)
5. Homozygous Dominant – 2 dominant alleles (TT) for tall
6. Homozygous recessive – 2 recessive alleles (tt) for short (ONLY way to show recessive trait)
7. Heterozygous – 1 dominant and 1 recessive allele (Tt) for tall

Answering genetic problems: Read the question carefully

Dominant trait - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Recessive trait - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Symbol Dominant = \_\_\_\_\_\_\_ (capital letter)

Symbol Recessive = \_\_\_\_\_\_\_\_ (lowercase of dominant symbol)

Parent 1 – Phenotype is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent 1 – genotype is \_\_\_\_\_\_\_\_ (use symbols)

Parent 2 – Phenotype is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent 2 – genotype is \_\_\_\_\_\_\_\_\_ (use symbol)

Parents = \_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_

Donation = \_\_\_\_ or \_\_\_\_ X \_\_\_\_ or \_\_\_\_

**Punnet square**

 Parent donation 🡪

 🡪

 Other parent donations

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Answer: the KIDS are……….

# w/ Dominant phenotype = \_\_\_\_\_\_\_ # w/ Homo Dom = \_\_\_\_\_\_

# w Recessive Phenotype = \_\_\_\_\_\_\_ # w/ Hetero = \_\_\_\_\_\_

Ratio = \_\_\_\_\_\_\_\_\_\_ # w/ Homo Rec = \_\_\_\_\_\_

% = \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ Ratio= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

% = \_\_\_\_\_\_ & \_\_\_\_\_\_\_ & \_\_\_\_\_