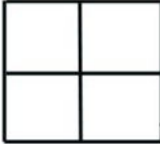


Name: _____

HEREDITY SCIENCE STARTERS

3/18-3/22/2024

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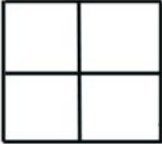
| Date: | Question: | Answer: |
|---------------------|---|--|
| Monday /2 | <p>We use the term gene for the factors that control a trait. Alleles are the different forms of a gene. For example, the gene that controls plant height in peas, has one allele for tall stems and one allele for short stems.</p> <p style="text-align: center;"><u>In this scenario,</u></p> <ol style="list-style-type: none"> What are the two alleles? What would be a heterozygous genotype if height is represented by the letter (A)? | |
| Tuesday /2 | <p><i>W= Long whiskers (dominant)</i> <i>w= short whiskers (recessive)</i></p> <p>What is the probability of producing offspring that have short whiskers from a cross of two seals one <u>homozygous recessive</u> and one <u>heterozygous</u>?</p> <ol style="list-style-type: none"> Fill out the Punnett Square Determine genotype ratios Determine phenotype ratios Answer the question above |  |
| Wednesday /2 | <p>What is a model for predicting the probability of traits being passed to offspring based on the traits of their parents?</p> <div style="display: flex; justify-content: space-around;"> <div>A. Pedigree C. Genotype Square</div> <div>B. Phenotype Cross D. Punnett Square</div> </div> | |

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| Date: | Question: | Answer: |
|---------------------|--|--|
| Monday /2 | We use the term gene for the factors that control a trait. Alleles are the different forms of a gene. For example, the gene that controls plant height in peas, has one allele for tall stems and one allele for short stems. In this scenario, 1. What are the two alleles? 2. What would be a heterozygous genotype if height is represented by the letter (A)? | |
| Tuesday /2 | W= Long whiskers (dominant) w= short whiskers (recessive) What is the probability of producing offspring that have short whiskers from a cross of two seals one <u>homozygous recessive</u> and one <u>heterozygous</u> ? 1. Fill out the Punnett Square 2. Determine genotype ratios 3. Determine phenotype ratios 4. Answer the question above |  |
| Wednesday /2 | What is a model for predicting the probability of traits being passed to offspring based on the traits of their parents? A. Pedigree C. Genotype Square B. Phenotype Cross D. Punnett Square | |

Friday

/2

In a species of rabbit, F is the dominant allele for brown fur, and f is the recessive allele for black fur. Two rabbits have four offspring. Three have brown fur, and one has black fur. Which of the following could describe the genotypes of the parents?

- A. Both parents are heterozygous, with one dominant allele and one recessive allele.
- B. One parent is homozygous and has brown fur, while the other is homozygous and has black fur.
- C. One parent is homozygous with dominant alleles, and the other is heterozygous with two recessive alleles.
- D. Both parents are homozygous, and one of the parents has dominant alleles while other has recessive alleles.

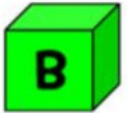
CUBE Test-Taking Strategy



Circle your vocabulary words



Underline important words



BOX in the question



~~ELIMINATE~~ wrong answers