

1. Predict the TRC for each of the following individuals.

Genotype	Male	Female
<i>AABBCCDD</i>	<u>176</u>	<u>142</u>
<i>AabbccDd</i>	<u>104</u>	<u>88</u>
<i>AaBbCcDD</i>	<u>152</u>	<u>124</u>
<i>aaBbCcDd</i>	<u>128</u>	<u>100</u>

2. Write the genotypes of parents who are heterozygous for all four genes.

AaBbCcDd • *AaBbCcDd*

Write the genotype of their child who has the maximum number of active alleles possible.

AABBCCDD

- a. What are the TRCs for the parents and their child (assume that the child is a male)?

Parents: Dad: 128 Mom: 100

Child: 176

- b. Calculate the probability that these parents would produce a child with the minimum number of active alleles. Show your calculations.

aabbccdd

$$\frac{1}{256}$$

$$16 \times 16 = 256$$

3. If an *AaBbCcDd* male mates with an *AaBbCCDD* female,

7 × 4

- a. What is the minimum number of ridge-producing genes possible in one of their children?

$$\frac{1}{32}$$

- b. What would be the TRC for this child if it is a male?

A female?

- c. If this child is a male, will he have a higher or lower TRC than the parent with the lower ridge count?

- d. What is the maximum number of ridge-producing genes possible in a child of this couple?

- e. If this child is a female, will she have a higher or lower TRC than the parent with the higher ridge count?

Explain.

4. If an *AaBbCcDd* male mates with an *AaBbCcDd* female,

- a. What is the minimum number of active alleles possible in a child this couple could produce?

4

- b. What would be the probability of producing a child with the minimum number of active alleles? Show your calculations.

$$\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} = \frac{1}{256}$$

Polygenic Inheritance Fingerprint Ridge Count Lab Answers

ML Yell



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Genetics Thomas Robert Mertens, Robert L. Hammersmith, 1991 THE definitive genetics lab manual for over 50 years this user friendly volume stresses classical genetics but includes some of the recent advances related to molecular and human genetics as well Drosophila and Maize Experiments in Genetics Monohybrid Crosses Dihybrid Crosses Cell Reproduction Mitosis Meiosis in Animals Oogenesis and Spermatogenesis Meiosis in Angiosperms Microsporogenesis and Megasporeogenesis Polytene Chromosomes from Drosophila Salivary Glands Sex Chromosomes and Gene Transmission The Sex Check A Study of Sex Chromatin in Human Cells Human Chromosomes Linkage and Crossing Over Genetics of Ascospore Color in Sordaria An Investigation of Linkage and Crossing Over Using Tetrad Analysis Open Ended Experiments Using Drosophila Locating a Mutant Gene in Its Chromosome Isolation of DNA Restriction Endonuclease Digestion and Gel Electrophoresis of DNA Amplification of DNA Polymorphisms by Polymerase Chain Reaction PCR and DNA Fingerprinting Transformation of Escherichia coli Gene Action Synthesis of β Galactosidase in Escherichia coli Chromatographic Characterization of Drosophila melanogaster Mutants Bacterial Mutagenesis Gene Recombination in Phage Polygenic Inheritance Fingerprint Ridge Count Population Genetics The Hardy Weinberg Principle The Effects of Selection and Genetic Drift Applied Human Genetics

Genetics Thomas R. Mertens, Robert L. Hammersmith, 1995 This manual offers a broad and inclusive array of self contained open ended laboratory investigations in both classical and molecular genetics The book leads readers step by step through each investigation using diagrams photographs sequenced questions appropriate references and worked examples etc The investigations use a variety of organisms are cost efficient and often focus on cutting edge topics It also offers more sophisticated investigations in polygenics population molecular and microbial genetics

Determining the Effectiveness of a Biotechnological Curricular Modification to Biology Instruction Ronald Melvin Allen, 1993 Current Index to Journals in Education, 1989 *Cumulated Index Medicus*, 1977 *Dissertation Abstracts International*, 1980 *Genetics Abstracts*, 1978 **The Fingerprint Quizzer** National Fingerprint and Identification Bureau, Inc., New York, 1942

Reviewing **Polygenic Inheritance Fingerprint Ridge Count Lab Answers**: Unlocking the Spellbinding Force of Linguistics

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