

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: 104

Child: 176

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

aa bb cc dd

$\frac{1}{256}$

$16 \times 16 = 256$

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

Ronald Melvin Allen



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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

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