

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

Genotype	Male	Female
$AABBCCDD$	<u>176</u>	<u>142</u>
$AabbccDd$	<u>104</u>	<u>88</u>
$AaBbCcDd$	<u>152</u>	<u>124</u>
$aabbccDd$	<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,

- 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 Answers

S Marginson



Polygenic Inheritance Fingerprint Ridge Answers:

The book delves into Polygenic Inheritance Fingerprint Ridge Answers. Polygenic Inheritance Fingerprint Ridge Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Polygenic Inheritance Fingerprint Ridge Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Polygenic Inheritance Fingerprint Ridge Answers
 - Chapter 2: Essential Elements of Polygenic Inheritance Fingerprint Ridge Answers
 - Chapter 3: Polygenic Inheritance Fingerprint Ridge Answers in Everyday Life
 - Chapter 4: Polygenic Inheritance Fingerprint Ridge Answers in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Polygenic Inheritance Fingerprint Ridge Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Polygenic Inheritance Fingerprint Ridge Answers.

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