

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

Genotype	Male	Female
$AABBCCDD$	<u>176</u>	<u>142</u>
$AabbGgDd$	<u>104</u>	<u>88</u>
$AaBbCcDD$	<u>152</u>	<u>124</u>
$aaBbGgDd$	<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.

$aa\text{ }bb\text{ }gg\text{ }dd$

$\frac{1}{256}$

$16 \times 16 = 256$

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

$7 \times 4$

- 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

**Hongru Du**



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