Genetic Processes — Practice Test

Ontario Biology, Grade 11, University Preparation (SBI3U) • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Two heterozygous pea plants are crossed. About one quarter of the offspring show the recessive trait. Out of 40 offspring, about how many show the recessive trait?**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Two heterozygous pea plants are crossed. About three quarters of the offspring show the dominant trait. Out of 80 offspring, about how many show the dominant trait?**

ANSWER _____

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3 **A cross between a homozygous dominant parent and a homozygous recessive parent produces offspring that are all**

- A homozygous dominant
- B heterozygous
- C homozygous recessive
- D recessive phenotype

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4 **The phenotype of an organism is its**

- A genetic makeup only
- B observable traits
- C chromosome number
- D number of offspring

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5 **The tree shows the possible offspring genotypes from a cross of two heterozygous parents. How many of the four outcomes show the recessive phenotype?**

A 0

B 1

C 2

D 3

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6 **Which technology uses a specific DNA sequence to identify an individual?**

A Cloning only

B Selective breeding

C DNA fingerprinting

D Natural selection

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7 **Two heterozygous pea plants are crossed. About one quarter of the offspring show the recessive trait. Out of 80 offspring, about how many show the recessive trait?**

ANSWER _____

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8 **Two heterozygous pea plants are crossed. About three quarters of the offspring show the dominant trait. Out of 120 offspring, about how many show the dominant trait?**

ANSWER _____

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9 **Two heterozygous pea plants are crossed. About one quarter of the offspring show the recessive trait. Out of 160 offspring, about how many show the recessive trait?**

ANSWER _____

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10 **Two heterozygous pea plants are crossed. About three quarters of the offspring show the dominant trait. Out of 200 offspring, about how many show the dominant trait?**

ANSWER _____

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ANSWER KEY

1.	10	**5.**	B	**9.**	40
2.	60	**6.**	C	**10.**	150
3.	B	**7.**	20		
4.	B	**8.**	90		

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