

Use a Simple Inheritance Model



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. How many boxes show Aa?

Answer: 2

2. What probability does the model give for aa?

Answer: 1/4

3. What probability has at least one A?

Answer: 3/4

4. Name the two homozygous genotypes shown.

Answer: AA and aa

5. Does the model guarantee one aa child in every four?

Look for:

- Distinguishes probability from guarantee.

One possible response: No. It represents probabilities, not a fixed family outcome.

6. Does dominant mean the allele must be most common?

Look for:

- Does not equate dominance with frequency.

One possible response: No. Dominance describes expression in this model, not population frequency.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.