Name: _____   Score: _____

4 Multiple choice questions

(Codominance) If a mouse with black fur (BB) and a mouse with white fur (WW) mate, what will be the phenotype(s) of their offspring? Why?

○ Black, because in codominance, one trait dominates.

○ Solid gray, because in codominance, traits blend.

○ Black and white stripes, because in codominance, traits combine, so if black fur and white fur combine, there is black and white stripes.

○ Brown, because in codominance, traits are suppressed.

(Incomplete Dominance) If a mouse with black fur (BB) and a mouse with white fur (WW) mate, what will be the phenotype(s) of their offspring? Why?

○ Gray, because in incomplete dominance, traits blend, so if black and white blend, they make gray.

○ Spotted, because in incomplete dominance, traits mix randomly.

○ Black, because in incomplete dominance, one trait dominates.

○ White, because in incomplete dominance, traits are suppressed.

(Incomplete Dominance) What if two mice with gray fur (BW) had babies? What would be the phenotypes and genotypes? Why?

○ 75% of their babies would have gray fur, and 25% would have black fur.

○ 25% of their babies would have black fur, 50% would have gray fur, and 25% would have white fur.

○ 50% of their babies would have black fur, 25% would have gray fur, and 25% would have white fur.

○ 25% of their babies would have brown fur, 50% would have gray fur, and 25% would have white fur.

What is the difference between codominance and incomplete dominance?

○ In codominance, traits are masked, and in incomplete dominance, traits are enhanced.

○ In codominance, traits are suppressed, and in incomplete dominance, traits are dominant.

○ In codominance, traits combine, and in incomplete dominance, traits blend.

○ In codominance, traits blend, and in incomplete dominance, traits are separate.