

You cross a white male and an orange female Siberian tiger. The F1 generation is all orange tigers.

The F2 generation contains 22 female white tigers: 25 male white tigers: 26 female orange tigers: 27 male orange tigers.

The reciprocal cross results in an F2 generation with the following ratio: 47 female orange tigers: 27 male orange tigers: 26 male white tigers.

Given the information provided above, answer the following questions:

- 1). Is the trait 'white color' autosomal or sex-linked? (Circle one)
- 2). Is the trait 'white color' recessive or dominant? (Circle one)

The following questions refer to the work you did with the fruit fly crosses in lab.

For each trait listed below, state whether the trait is autosomal or sex-linked, and whether the trait is dominant or recessive (2 points).

Red eye: _____

Purple eye: _____

Yellow body: _____

Grey body: _____

Wrinkled wing: _____

Answer questions 3a and 3b from page 63 of the lab manual.