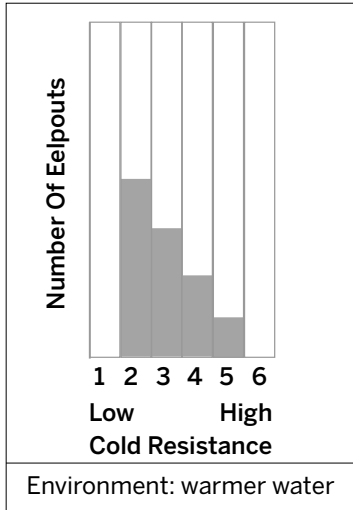
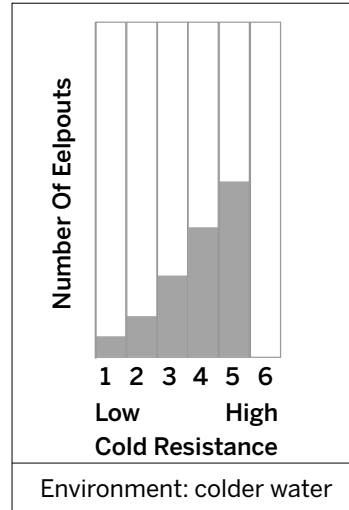


At Time 1, the Antarctic eelpout lived in warmer water. When land masses moved millions of years ago, the water became colder. Time 2 represents some time after the environment changed. Time 3 represents many generations after the environment changed. Review the histograms below.

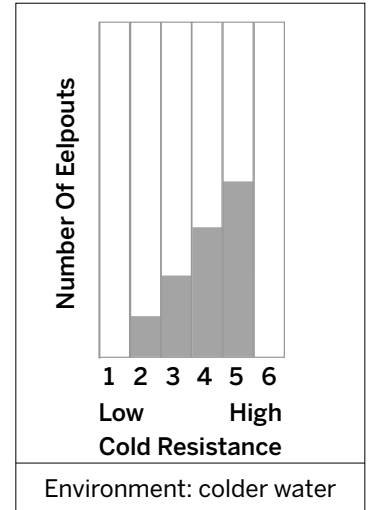
1. Population at Time 1



2. Population at Time 2



3. Population at Time 3



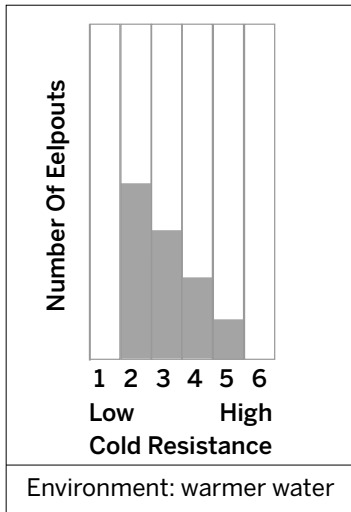
Did mutations affect which trait was the most common at Time 3? Why or why not?

Add annotations to the histograms to help you answer this question. Then, write an explanation about your annotations below. Use all of these words in your explanation:

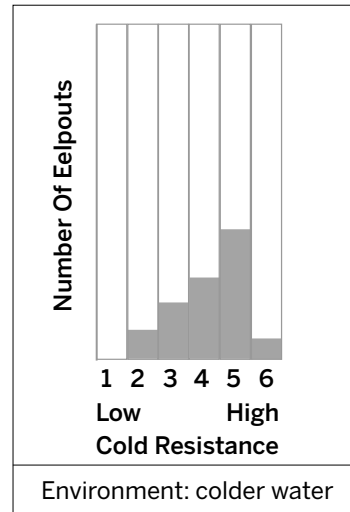
- *adaptive trait*
- *environment*
- *mutation*
- *non-adaptive trait*

At Time 1, the Antarctic eelpout lived in warmer water. When land masses moved millions of years ago, the water became colder. Time 2 represents some time after the environment changed. Time 3 represents many generations after the environment changed. Review the histograms below.

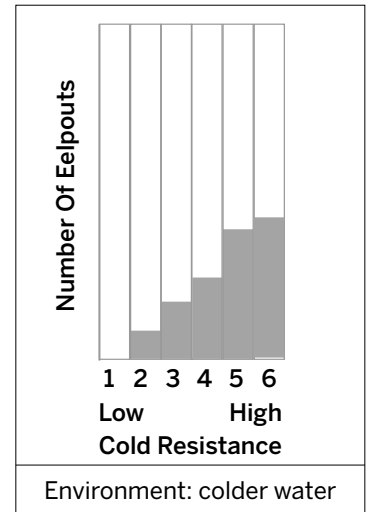
1. Population at Time 1



2. Population at Time 2



3. Population at Time 3



Time

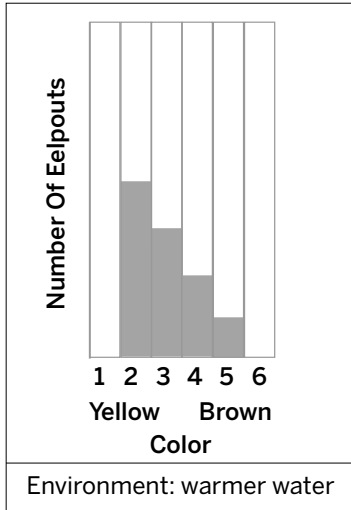
Did mutations affect which trait was the most common at Time 3? Why or why not?

Add annotations to the histograms to help you answer this question. Then, write an explanation about your annotations below. Use all of these words in your explanation:

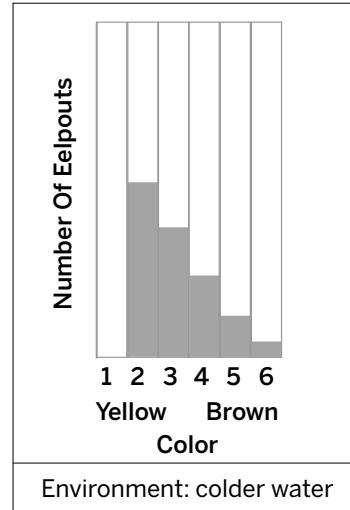
- *adaptive trait*
- *environment*
- *mutation*
- *non-adaptive trait*

At Time 1, the Antarctic eelpout used to live in warmer water. When land masses moved millions of years ago, the water became colder. Time 2 represents some time after the environment changed. Time 3 represents many generations after the environment changed. Review the histograms below.

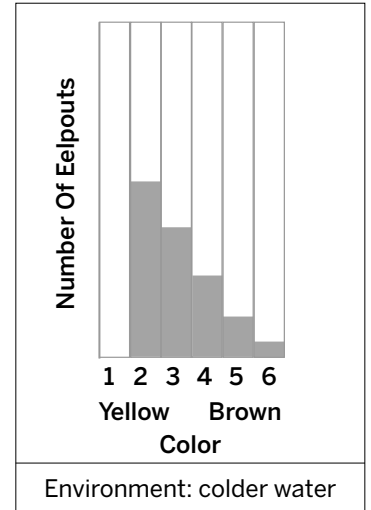
1. Population at Time 1



2. Population at Time 2



3. Population at Time 3



Time

Did mutations affect which trait was the most common at Time 3? Why or why not?

Add annotations to the histograms that help you answer this question. Then, write an explanation about your annotations below. Use all of these words in your explanation:

- *adaptive trait*
- *environment*
- *mutation*
- *non-adaptive trait*
