

Consideration

- Apple juice contains sugar water, which is harder to freeze than pure water.
- The regular apple juice is sweeter than the frozen apple juice.
- The tastiest way to eat apple ice is to let it become slushy first.



APPLE
ICE

HIOSAKI

MINAMI

HIGH SCHOOL

14HR 8group



Purpose

- Because Aomori people's longevity is shorter than average we want to use apples, a specialty of Hirosaki, to improve it.
- We used apple juice because it was more available.

Experiment

We studied the sugar content of apple juice, frozen apple juice and melted apple juice. We thought about which apple juice was the sweetest.

Hypothesis

We think that the sugar content of frozen apple juice will be lower than regular apple juice.

Procedure

- First, we measured the sugar content of both sweet and sour apple juice.
- Then we measured the sugar content of frozen sweet and sour apple juice.
- Lastly, we measured the sugar content of commercial apple juice and sour apple juice.

Result

| | regular juice | frozen apple juice | melts and be comes juice | apple fuji juice |
|-------------------|---------------|--------------------|--------------------------|---------------------|
| Sour juice | 7.7% | 4.7% | | 13% |
| Sweet apple juice | 13.1% | 7.4% | 28.1% | ice (Dole) 27.5% |