## Study of Relationships Between Misal ignments, Descent Speed and the Shape of the Parachutes

Kurashiki Amaki High School




## Octagon Parachute



Plan view of canopy

Cross Parachute


## Cross Parachute



40 cm


80 cm


160 cm

## Method

## 0ctagon

## Cross



How to derive..

Descent speed (m/s)

## descent time

## How to derive..

## Misalignment ratio

Misalignment of cross parachute per second ( $\mathrm{m} / \mathrm{s}$ )

Misalignment of octogon parachute per second ( $\mathrm{m} / \mathrm{s}$ )

## Result



Graph3 Relationships between Misalignments, Descent speed and The Shape of Parachutes

## Conclusion and the Future Goals

$\Rightarrow$ The parachutes, sides of $80 \mathrm{~cm} \sim 140 \mathrm{~cm}$ were the best.

The future goal is to make new parachute and help people.

