

Garbage Bags

Trey and Michael want to know which brand of garbage bag is the strongest.

Brand X claims to be stronger than its top competitors, Brand Y and Brand Z.

Trey and Michael's hypothesis is:

If we put as many books as possible into each brand of trash bag, Brand X will hold the most books before ripping because they claim to make the strongest bag.

Trey and Michael wrote the following plan:

1. Count how many textbooks Brand X will hold before it tears.
2. Count how many textbooks Brand Y will hold before it tears.
3. Count how many textbooks Brand Z will hold before it tears.

Your Turn

1. What is the independent variable in this experiment?
2. What is the dependent variable in this experiment?
3. Identify two constants or controlled variables in this experiment.
- 4-5. In each space, name one thing that Trey and Michael can do to improve their experiment.