## Independent and Dependent Variables:

An **independent variable**:
- Will change on its own

A **dependent variable**:
- Changes in response to the independent variable

**Practice:**

1. Maitha is going on a trip. She packs two snacks for each day of her trip. Let d represent the number of days she is on her trip. Let n represent the number of snacks she brings.

The N (dependent variable) depends on the D (independent variable).

2. Salem is partcipating in a walkathon to raise money for a local charity. The farther he walks, the more money he will raise for the charity. Let m represent the amount of the amount of money he raises. Let d represent the distance Salem walks.

Independent variable = D

Dependent variable = M

As the distance he walks increases, the amount of money he raisies

Increases .

3. Fatima buys a new car. Sadly, Fatima's car is worth less each year. Let v represent the value of the car. Let t reprsent the amount of time since Fatima bought the car.

Independent variable = T

Dependent variable = V

As time goes on, the value of Fatima's car Decreases .