



INDEPENDENT AND DEPENDENT VARIABLES

6th

INDEPENDENT V. DEPENDENT

Controlled

Vary at known rate

Cause

X values

Input

Measured

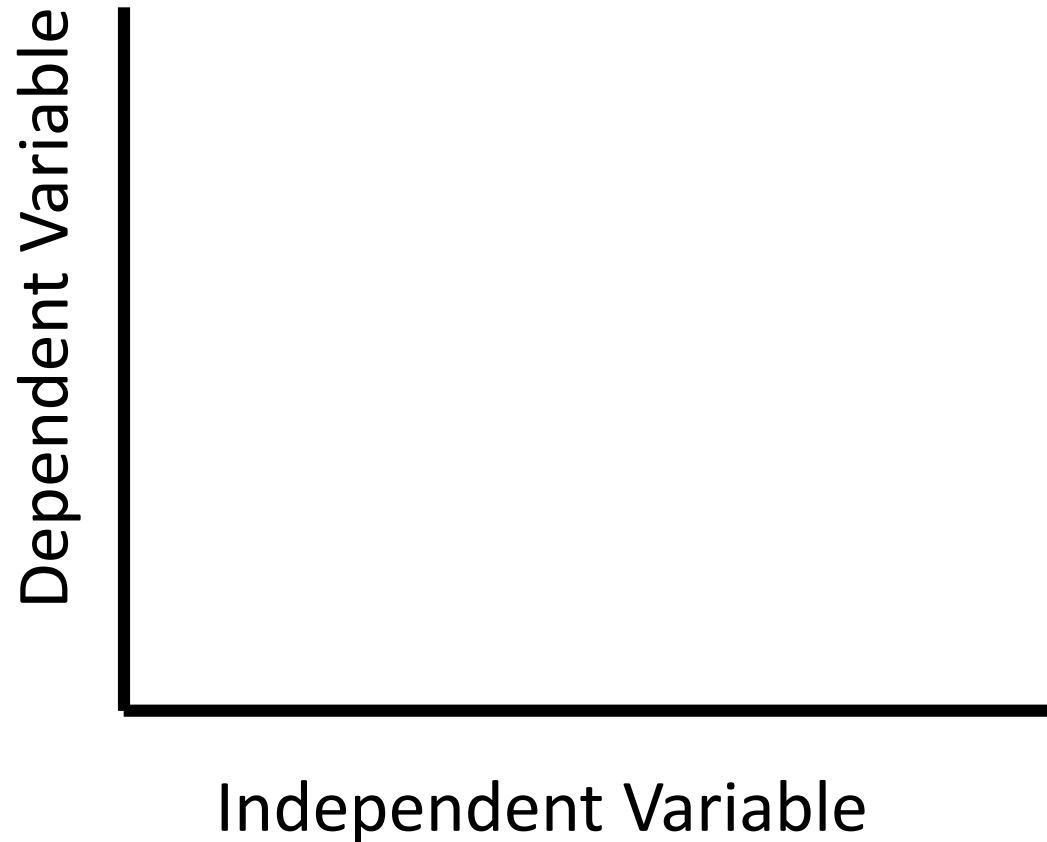
Vary at unknown rate

Effect

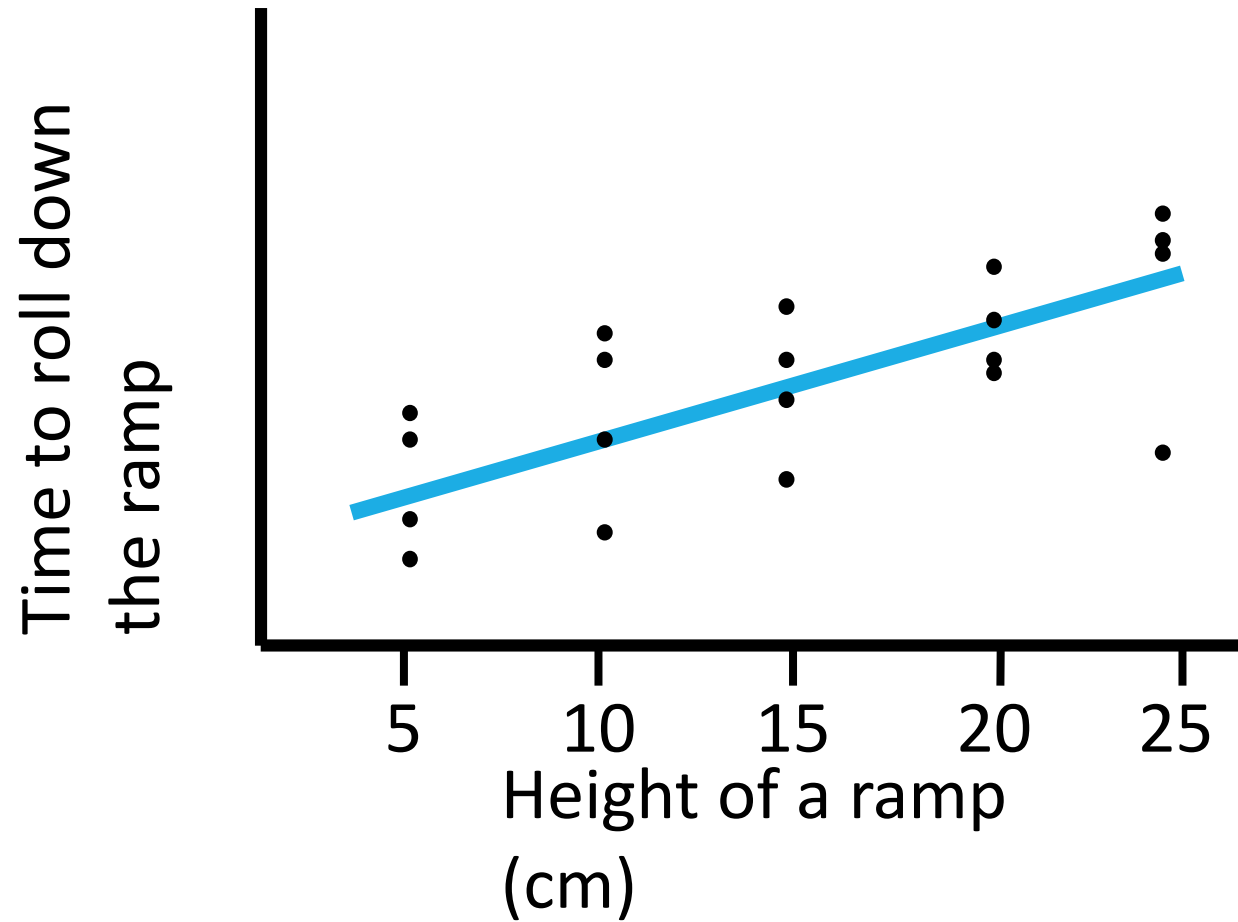
Y values

Output

GRAPHING DEPENDENT V. INDEPENDENT VARIABLES



Example



Example 2B: Identifying Independent and Dependent Variables

Identify the independent and dependent variables in the situation.

The height of a candle decrease d centimeters for every hour it burns.

The **height of a candle** *depends* on the **number of hours it burns**.

Dependent: **height of candle**

Independent: **time**

Example 2A: Identifying Independent and Dependent Variables

Identify the independent and dependent variables in the situation.

A painter must measure a room before deciding how much paint to buy.

The **amount of paint** *depends on* the **measurement of a room**.

Dependent: **amount of paint**

Independent: **measurement of the room**

Check It Out! Example 2a

Identify the independent and dependent variable in the situation.

A company charges \$10 per hour to rent a jackhammer.

The **cost to rent a jackhammer** *depends on* the **length of time it is rented**.

Dependent variable: **cost**

Independent variable: **time**

Check It Out! Example 2b

Identify the independent and dependent variable in the situation.

Camryn buys p pounds of apples at \$0.99 per pound.

The **cost of apples** *depends on* the **number of pounds bought**.

Dependent variable: **cost**

Independent variable: **pounds**