# Independent & Dependent Variables
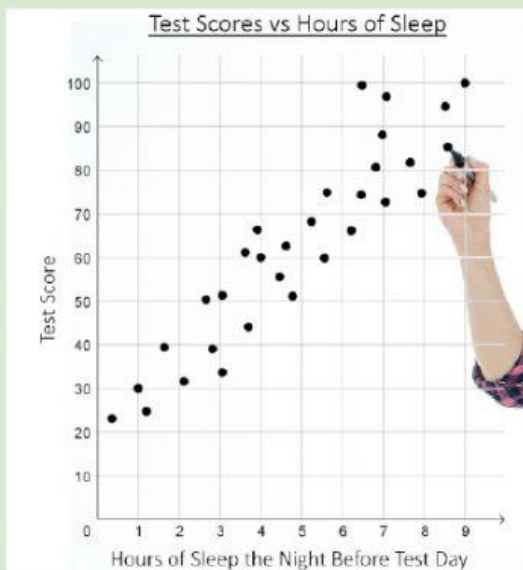
## Drag each property to the correct box

- The variable being studied or measured
- Its values are based on the other variable
- Its values are chosen by the experimenter

- Affects or changes the values of the other variable
- Its values depend on the values of the other variable

### Independent Variable

### Dependent Variable

| Match the labels below with the correct axis | Match the labels below with the correct column |
|---|---|

Test Scores vs Hours of Sleep

Test Score

Hours of Sleep the Night Before Test Day

| Age (Years) | Value ($) |
|---|---|
| 0 | 45 000 |
| 1 | 36 000 |
| 2 | 32 400 |
| 3 | 29 160 |
| 4 | 26 244 |
| 5 | 23 620 |
| 6 | 21 258 |

**Independent Variable**

**Dependent Variable**

**Independent Variable**

**Dependent Variable**

| | |
|---|---|
| **If the statement below is true about independent variable write IV in the box**<br>**If the statement below is true about dependent variable write DV in the box** | |
| | It is usually found on the vertical axis of a graph |
| | It is usually found on the horizontal axis of a graph |
| | It is usually found in the left-hand column of a table of values. |
| | It is usually found in the right-hand column of a table of values. |

Select the correct response for each questions below

Jasmine is calculating her potential earning from her new job. For each hour of work, she earns $28. Using this rate, she determines her earnings for a 30-hour work week. Select the **independent variable** for this situation

| earnings | $28 | 30 hours | # of hours worked |
|---|---|---|---|

Jasmine is calculating her potential earning from her new job. For each hour of work, she earns $28. Using this rate, she determines her earnings for a 30-hour work week. Select the **slope (rate of change)** for this situation

| earnings | $28 | 30 hours | # of hours worked |
|---|---|---|---|

Jasmine is calculating her potential earning from her new job. For each hour of work, she earns $28. Using this rate, she determines her earnings for a 30-hour work week. Select the **dependent variable** for this situation

| earnings | $28 | 30 hours | # of hours worked |
|---|---|---|---|

At the local fair, Yves pays an admission fee plus a cost per ride.

- If Yves goes on 4 rides, he pays a total of $24.
- If Yves goes on 8 rides, he pays a total of $36.What

What is the cost per rides at the fair?

| $4.50 | $3.00 | $12.00 | $6.00 |
|---|---|---|---|