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## Independent and Dependent Variables

Which of the following is the dependent variable and which is the independent variable?

a) A study between hours studied and Math test marks.

(Grade on test is dependent on hours spent studying).

Hours studied would be placed on the x-axis, and Math tests marks on the y-axis.

b) A study between hours worked and money earned.

(Money earned is dependent on hours worked).

Hours worked would be placed on the x-axis, and money earned along the y-axis.

c) The relationship between height and shoe size

(Shoe size in this case would be dependent on height). Height would be placed on the x-axis, and shoe size on the y-axis.

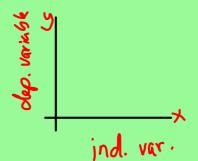
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## Independent and Dependent Variables

The value of one variable "P" depends on the value of the other variable "n". We say that P is the dependent variable and we plot it on the vertical axis (the y-axis). The independent variable n is plotted on the horizontal axis (x-axis). When two variables are related, we have a relation.

## Examples:

- Study time vs. Math Test score (ind) (dep)
- Hours worked vs. Money earned (ind) (dep)
- Height vs. Shoe size (dep)

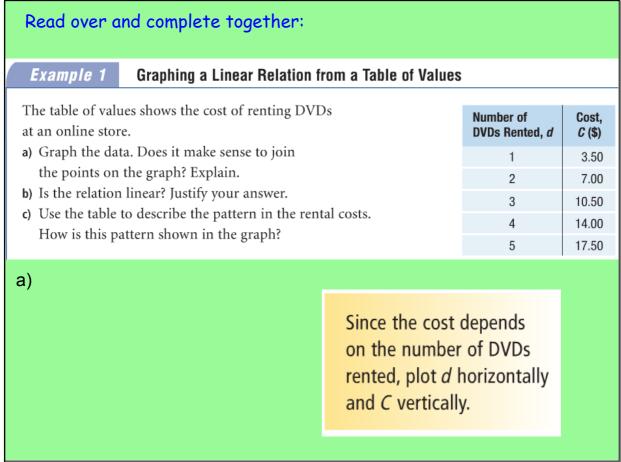


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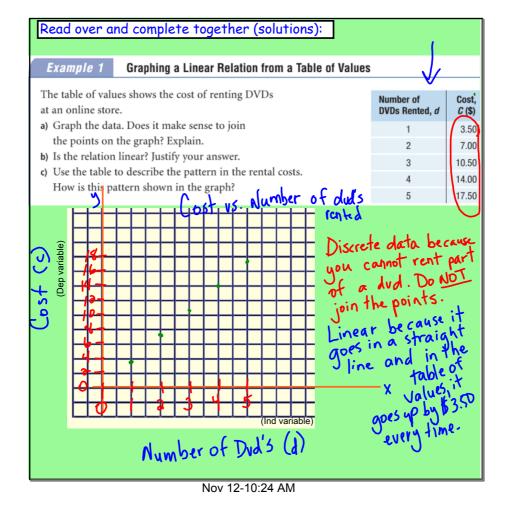
On a graph of your data, make sure to include each of the following:

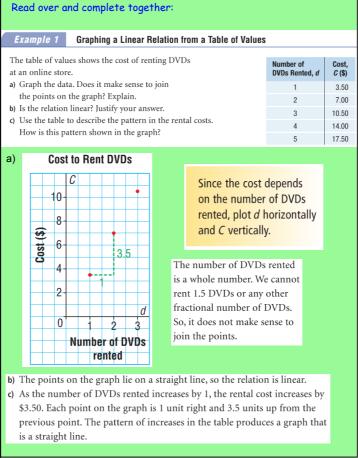
- A title
- Labels on each axis
- Values on each axis (A scale)

Please come get a piece of graph paper from me if you don't have your own.



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End of mini-lesson Please complete the textbook questions and/or worksheet for this section on specified on your task.