

What is a model?

- 1. A person who serves as a template for artwork or fashion.
- 2. A representation of a physical object.
- 3. A simulation used to analyze the workings of a real-world system or event.
- 4. A style, type, or design.
- 5. The structural design of a complex system.
- 6. A successful example to be copied, with or without modifications.
- 7. Any copy, or resemblance, more or less exact.









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Time Required To Read Your Textbook - Model 2

Assume it takes w time to work through each task and that there are W tasks per page:

T = Pr + wWP

How does this model compare with Model 1 or with your model?

Time Required To Read Your Textbook - Model 1 Assume it takes r time to read a page and there are P pages in the book, then an estimate of the time required to read a book r is: T = Pr > Is this equation a "good" model?

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Some Weak Points of the Model

- Does r consider the unique properties of the reader?
- > Does the model accommodate a thoughtful reader?
- How accurate is the answer?
- > How reliable are your estimates for *r*, *w*, and *W*?













Distinctions Between Variables and Parameters

- > Often, it is a matter of perspective.
- Variables are factors in the model that are actively changing
- Parameters are factors that mediate the effect of the variables
- Parameters that cannot change are called <u>constants</u>

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	P	W	W	Т
1.5	150	5	2	1,725
1.5	150	10	2	3,225
1.5	150	15	2	4,725
3	150	5	2	1,950
3	150	10	2	3,450
3	150	15	2	4,950

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