Utility Theory

- We assume that consumers make choices rationally.
- Utility theory asserts that rational consumers will allocate their incomes to maximize their own well-being.
- Philosopher Jeremy Bentham argued that human action results from a type of costbenefit analysis, where people make decisions based on the marginal utility they hope to derive.

Marginal Utility Analysis

- Marginal utility analysis: A way to study consumer decision making.
 - assumes that satisfaction can be measured
 - consumers maximize satisfaction when the marginal utility per dollar are equal for all products and services.

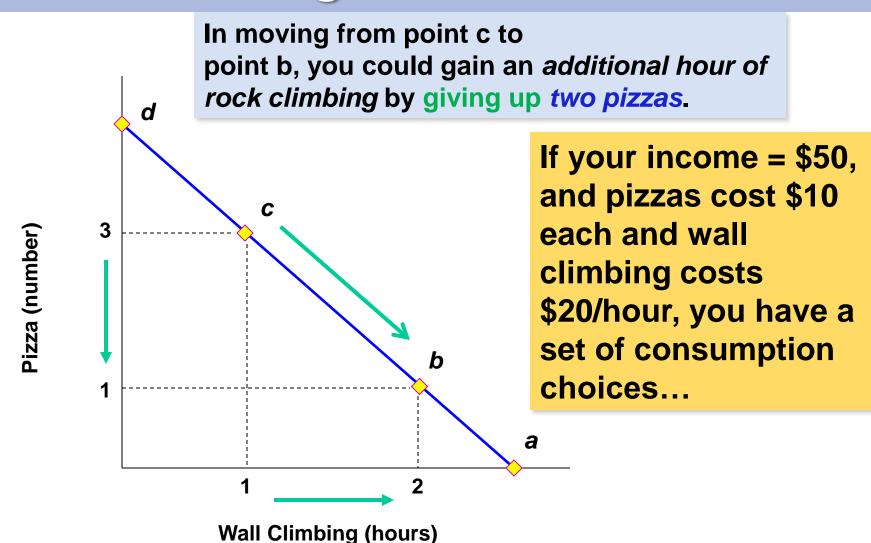
Marginal Utility Analysis

- When you face a set of choices on how to allocate time or resources between two possible endeavors, we can represent these choices by a <u>budget line</u>.
 - Points along the line are attainable with the resources at hand.
- Economic theory asserts that the individual will choose the point of maximum utility.

Budget Line and Utility

- Budget line: Graphically illustrates the possible combinations of two goods that can be purchased with a given income, given the prices of both products.
- *Utility:* A hypothetical measure of consumer satisfaction.

The Budget Constraint



Total and Marginal Utility

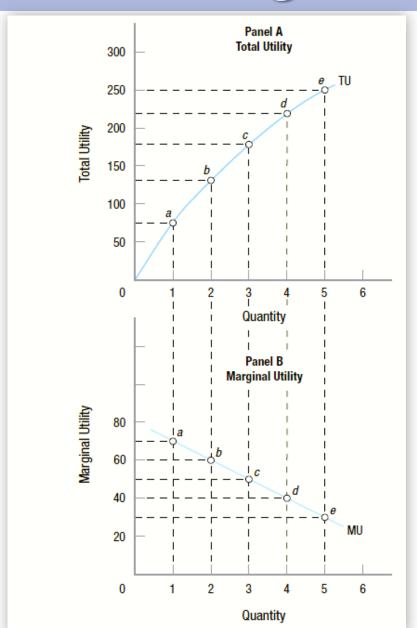
Total utility is the total amount of satisfaction a person receives from consuming a given quantity of goods and services.

Marginal utility is the additional satisfaction derived from consuming one further unit of a good or service.

Law of Diminishing Marginal Utility

Law of diminishing marginal utility: As we consume more of a given product, the added satisfaction we get from consuming an additional unit declines.

Total and Marginal Utility



The Utility-Maximizing Rule

- Utility maximizing rule: utility is maximized where the marginal utility per dollar is equal for all products.
- For all goods "a" through "n",

$$\frac{MU_a}{P_a} = \frac{MU_b}{P_b} = \cdots = \frac{MU_n}{P_n}$$

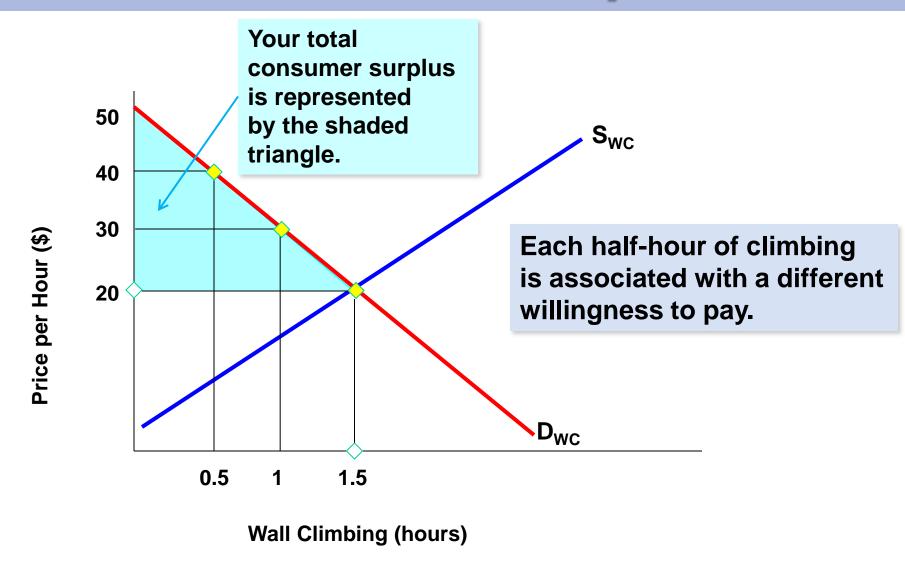
Deriving Demand Curves

- How will consumers behave if the price of a good falls?
- If the price of a good changes, this will change the quantity consumers buy (because it changes their optimal point).

Consumer Surplus

Consumer surplus is the difference between what consumers would be willing to pay for a product and what they must actually pay for the product in the market.

Consumer Surplus



Criticisms of Marginal Utility Theory

Can consumers really measure the utility they receive from different goods? Do consumers calculate the marginal utility ratios associated with each activity?