



Introduction

- Theories of why trade occurs can be grouped into three categories:
 - Market size and distance between markets determine how much countries buy and sell (Gravity model).
 - Differences in labor, physical capital, natural resources and technology create productive advantages for countries (Countries are different).
 - Economies of scale (larger is more efficient) create productive advantages for countries.
 - => Practical international trade patterns reflect the interaction of all of these motives.





C	 The concept of abso Adam Smith - Absolute advan Trade between countries is base advantage Absolute advantage: produce me 	tage theo d upon abs ore efficie	lvantag ry ^{olute} ntly
		US	UK
	Wheat (bushels/hour of labor)	6	I
	Cloth (meters/hour of labor)	4	5
	 The US: absolute advantage in wheat production and The UK in cloth production Two countries exchange 6W:6C The US would be better off by 2m of cloth The UK would be ahead by 24m of cloth => Both nations gain, but the UK gains more. 		



Comparative and Opportu • Example of two commodities model (labor)	Advantage inity Cost (co wo countries (US (roses and comp).	nt.) S and Colombia) outers) and, one f	, two factor
Nations	Roses (million)	Computers (thousand)	
US	10	100	
Colombia	10	30	
 <u>The US</u> has therefore a co <u>computers</u>. 	a lower opportu omparative advai	inity cost and ntage in producin	Ig
 <u>Colombia</u> h therefore a co <u>roses</u>. 	as a lower oppo omparative advai	rtunity cost and ntage in producin	Ig









- Only two countries are modeled: Home or Domestic (H) and Foreign (F).
- 2. Only two goods are important for production and consumption: wine (W) and cheese (C).
- 3. Labor is the only production factor (L)
- 4. Labor productivity varies across countries, usually due to <u>differences in technology</u>, but labor productivity in each country is constant across time.
- 5. The supply of labor in each country is constant.
- 6. Labor is fully employed and mobile between industries.
- 7. Competition allows laborers to be paid a "competitive" wage, a function of their productivity and the price of the good that they can sell, and allows laborers to work in the industry that pays the highest wage.

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R	A num	A numerical example		
		Cheese	Wine	
V	Home	a _{LC} = 1hour/kg	a _{LW} = 2hours/I	
	Foreign	$a_{LC}^* = 6$ hours/kg	$a_{LW}^* = 3$ hours/l	
	- Develo Foreigi - Sketch - Whicl	op functions of P n. PPF of each nation n country has	PFs of Home and on a comparative	
	advantage in cheese production?			





















































Relative V	Vages (cont.)	
Unit labo	or requirements for Home	e and Foreign
	Cheese	Wine
Domestic	<i>a_{LC}</i> = 1 hour/kg	a _{LW} = 2 hours/L
Foreign	a_{LC}^{*} = 6 hours/kg	<i>a[*]_{LW}</i> = 3 hours/L
 The relative productivition Home is the observation of the obse	ve wage lies betwee ties in each industr 6/1 = 6 times as produ oduction, e is only 3/2 = 1.5 time wine production. vage of Home is three lying between two pro	en the ratio of the y of two nations. Ictive as Foreign in es as productive as times as high as oductivity ratios.
		3-43



















Numerical examples (cont.)			
• Suppose there are 5 goods produced in the world:			
TABLE 3-3 Home and Foreign Unit Labor Requirements			
Good	Home Unit Labor Requirement (<i>a_{Li}</i>)	Foreign Unit Labor Requirement (a_{Li}^*)	Relative Home Productivity Advantage (<i>a[*]_L/a_{Li}</i>
Apples	1	10	10
Bananas	5	40	8
Caviar	3	12	4
	6	12	2
Dates	0	12	







Two faulty premises of comparative advantage theory (cont.)

- Capital is not mobile and therefore offshoring was impossible.
 - This premises was largely true in Ricardo's time:
 - international shipping was relatively expensive
 - it was illegal to export machinery, or industrial plans, out of Britain.
 - Furthermore, Britain imposed a 50% tariff on all manufactured goods during the Industrial Revolution

















Key points in the Ricaridan model (cont. Exercise: PPF: Develop function, sketch in a diagram, identify slope Identify comparative advantage bases on PPF and opportunity costs => Identify production points (extreme specialization) and trade pattern in two-goods model Relative supply curve: how to construct, identify relative supply of the world Identify conditions for trade to take place Identify trade pattern in multiple-goods model

