















Interdependence			
<ul> <li>"Trade can mak better off"</li> <li>One of the Ten Chapter 1</li> <li>We now learn we nations – choose interdependent</li> <li>And how they can</li> </ul>	Principles from hy people – and	印台日英巴中德埃世度灣本國拿國國及界	船長開一艘 公司從 船東租來由 負責保險掛著 國旗的貨輪載 貨往 在 蘇伊士運河堵住 的船 <sup>取自王業立教授臉書</sup>
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Our example				
Assumptions:				
► Two countries: D	ailiok and Daiwan			
► Two goods: chips	sets and tea			
• One resource: lab	or, measured in hours			
We want to determine how much of both goods each country produces and consumes:				
If the country chooses to be self-sufficient				
If it trades with the other country				
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EXAMPL	EXAMPLE 1: Dailiok					
		Employment of Labor Hours		Produc	ction	
		Chipsets	Tea	Chipsets	Tea	
	А	50,000	0	100	0	
	В	40,000	10,000	80	1,000	
	С	25,000	25,000	50	2,500	
	D	10,000	40,000	20	4,000	
	Е	0	50,000	0	5,000	
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Active Learning 2:	Production Under	Trade		
We continue Example 1 and Active Learning 1, but this time the two countries will choose different				
production points	5.			
A. Dailiok produc	A. Dailiok produces 3,500 tons of tea.			
How many chipsets can Dailiok produce with the remaining resources? Draw this point on the PPF.				
B. Daiwan produces 48 chipsets.				
How many tons of tea can Daiwan produce with the				
remaining resources? Draw this point on the PPF.				
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Exports and Imports
▶ Imports
<ul> <li>Goods produced abroad and sold domestically</li> </ul>
<ul> <li>Foreign producer and domestic buyers</li> </ul>
▶ Exports
- Goods produced domestically and sold abroad
<ul> <li>Domestic producer and foreign buyers</li> </ul>
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Active Learning 3B: Daiwa	n's Consun	nption Wit	h Trade
Chipsets		chipsets	tea
100	produced	48	0
80	+ imported	0	880
48 P <sub>2</sub>	<ul> <li>exported</li> </ul>	22	0
$\begin{array}{c} 26\\ 24\\ C_1 \end{array}$	= amount consumed	26	880
0 6001,200 2,500 4,000 5,000			
880 Tea (tons)			
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Trade Ma	akes Botl	n Countrie	s Better C	)ff	
		Dai	liok		
		consumption	consumption	gains from	
		w/o trade	with trade	trade	
	chipsets	50	52	2	
	tea	2,500	2,620	120	
		Daiv	wan		
		consumption	consumption	gains from	
		w/o trade	with trade	trade	
	chipsets	24	26	2	
	tea	600	880	280	
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EXAMPLE 2: Comparative Advantage				
Dailiok: produce 1 chipset using 500 labor hours;				
produce 1 ton of tea using 10 labor hours				
Daiwan: produce 1 chipset using 625 labor hours;				
produce 1 ton of tea using 25 labor hours				
A. For each country, calculate the opportunity cost of producing each good.				
B. Which country has comparative advantage in the production of tea?				
C. Which has comparative advantage in producing chipsets?				
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EXAM	EXAMPLE 2B, C: Comparative Advantage				
	Opportunity cost of producing:				
		1 Chipset 1 Ton of Tea			
	Dailiok	50 tons of tea	0.02 chipsets		
	Daiwan	25 tons of tea	0.04 chipsets		
► Cor	Comparative advantage in chipsets: Daiwan				
	<ul> <li>Because Daiwan only has to give up 25 tons of tea (less than 50 for Dailiok)</li> </ul>				
Comparative advantage in tea: Dailiok					
▶ Sir	Since Dailiok has the lowest opportunity cost of producing it				
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The Price of the T	rade		
→ The Price of Tra	ade		
Must lie between	their opportunity costs	5	
► In our example:	▶ In our example: 22 chipsets traded for 880 tons of tea		
► So, the price of t	▶ So, the price of trade is 1 chipset for 40 tons of tea		
► This is:			
▶ Greater than Dai	Greater than Daiwan's opportunity cost of 1 chipset		
► (25 tons of tea)			
Lower than Dailiok's opportunity cost of 1 chipset			
▶ (50 tons of tea)			
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## Active Learning 4: Answers

- A. Absolute advantage in the production of coffee?
  - ▶ Fewer resources to produce 1 lb. of coffee
  - Mexico: (1 labor-hour in Mexico, but 2 in California)
- B. Which country has a comparative advantage in the production of wine?
  - Producing wine at the lowest opportunity cost
  - ▶ California's opportunity cost of wine= 2 lb. coffee
  - Mexico's opportunity cost of wine= 5 lb. coffee

Gains From Trade

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	Pair-Share				
You A	re Watching an Election Debate	e on Television			
veh veh	A candidate says, "We need to stop the flow of foreign vehicles into our country. If we place a tariff on foreign vehicles, our domestic vehicle production will rise and Taiwan will be better off."				
А.	Will Taiwan be better off if we limit ca	ar imports? Explain.			
Β.	3. Will anyone in Taiwan be better off if we limit car imports? Explain.				
C.	C. In the real world, does every person in the country gain when restrictions on imports are reduced? Explain.				
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Chapter in a Nutsh	ell		
► Interdependence	and trade are desirab	ble	
<ul> <li>Allow everyone to enjoy a greater quantity and variety of goods and services</li> </ul>			
► Comparative adv	Comparative advantage: being able to produce a good		
at a lower opportunity cost			
Absolute advanta	Absolute advantage: being able to produce a good with		
fewer inputs			
▶ The gains from trade are based on comparative			
advantage, not absolute advantage			
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