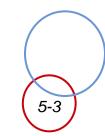






- explains why it is beneficial for countries to engage in international trade
- helps countries formulate their economic policy
- Oexplains the pattern of international trade in the world economy





Question: What is free trade?

O Free trade refers to a situation where a government does not attempt to influence through quotas or duties what its citizens can buy from another country or what they can produce and sell to another country





Question: How has international trade theory evolved?

- Mercantilism (16th and 17th centuries) promoted the idea of encouraging exports and discouraging imports
- In 1776, Adam Smith promoted the idea of unrestricted free trade
- In the 19th century, David Ricardo built on Smith ideas, and in the 20th century, Eli Heckscher and Bertil Ohlin refined Ricardo's work

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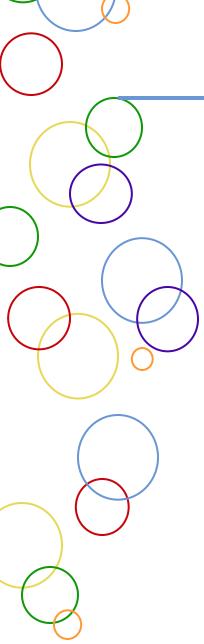
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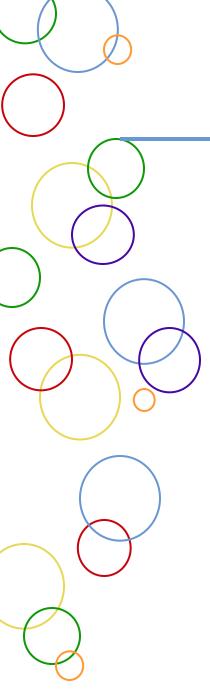


Question: Why is it beneficial for countries to engage in free trade?

- O The theories of Smith, Ricardo and Heckscher-Ohlin show why it is beneficial for a country to engage in international trade even for products it is able to produce for itself
- O International trade allows a country to specialize in the manufacture and export of products that can be produced most efficiently in that country, and import products that can be produced more efficiently in other countries

5-6





The Pattern of International Trade

- International trade theory helps explain trade patterns
 - Some patterns of trade are fairly easy to explain - it is obvious why Saudi Arabia exports oil, Ghana exports cocoa, and Brazil exports coffee
 - OBut, why does Switzerland export chemicals, pharmaceuticals, watches, and jewelry? Why does Japan export automobiles, consumer electronics, and machine tools?

5-7

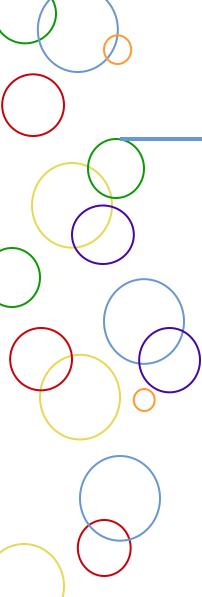


- Ricardo's theory of comparative advantage suggests that existing trade patterns are related to differences in labor productivity
- O Heckscher and Ohlin's theory explains trade through the interplay between the proportions in which the factors of production are available in different countries and the proportions in which they are need for producing particular goods
- Ray Vernon suggested that trade patterns could be explained by looking at a product's life cycle

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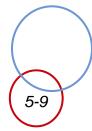
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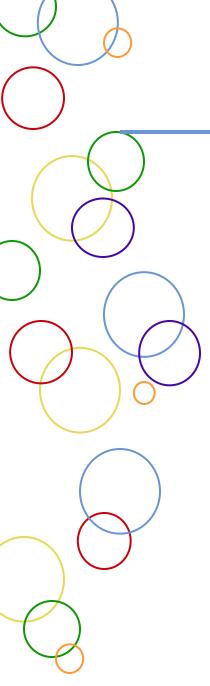
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The Pattern of International Trade

- O Paul Krugman developed new trade theory which suggests that the world market can only support a limited number of firms in some industries, and so trade will skew toward those countries that have firms that were able to capture first mover advantages
- Michael Porter focused on the importance of country factors to explain a nation's dominance in the production and export of certain products



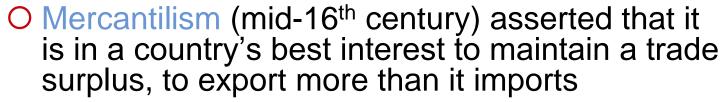


Trade Theory and Government Policy

- While the theories all suggest that trade is beneficial, they lack agreement in their recommendations for government policy
 - Mercantilism makes a case for government involvement in promoting exports and limiting imports
 - Smith, Ricardo, and Heckscher-Ohlin promote unrestricted free trade
 - New trade theory and Porter justify limited and selective government intervention to support the development of certain exportoriented industries

5-10





- it advocated government intervention to achieve a surplus in the balance of trade
- Oit viewed trade as a zero-sum game (one in which a gain by one country results in a loss by another)
- O Mercantilism is problematic and not economically valid, yet many political views today have the goal of boosting exports while limiting imports by seeking only selective liberalization of trade

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- O In 1776, Adam Smith attacked the mercantilist assumption that trade is a zero-sum game and argued that countries differ in their ability to produce goods efficiently, and that a country has an absolute advantage in the production of a product when it is more efficient than any other country in producing it
- According to Smith, countries should specialize in the production of goods for which they have an absolute advantage and then trade these goods for the goods produced by other countries

5-12



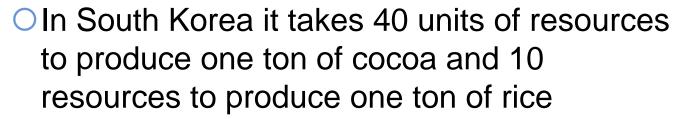
- Assume that two countries, Ghana and South Korea, both have 200 units of resources that could either be used to produce rice or cocoa
 - O In Ghana, it takes 10 units of resources to produce one ton of cocoa and 20 units of resources to produce one ton of rice
 - So, Ghana could produce 20 tons of cocoa and no rice, 10 tons of rice and no cocoa, or some combination of rice and cocoa between the two extremes



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So, South Korea could produce 5 tons of cocoa and no rice, 20 tons of rice and no cocoa, or some combination in between

Ohana has an absolute advantage in the production of cocoa

South Korea has an absolute advantage in the production of rice

5-14





- Ohana would produce 10 tons of cocoa and 5 tons of rice
- South Korea would produce 10 tons of rice and 2.5 tons of cocoa
- O If each country specializes in the product in which it has an absolute advantage and trades for the other product on the company of the other product of the company of the other product of the company of the other product of the other pro
 - Ohana would produce 20 tons of cocoa
 - South Korea would produce 20 tons of rice

5-15





 Ghana could trade 6 tons of cocoa to South Korea for 6 tons of rice

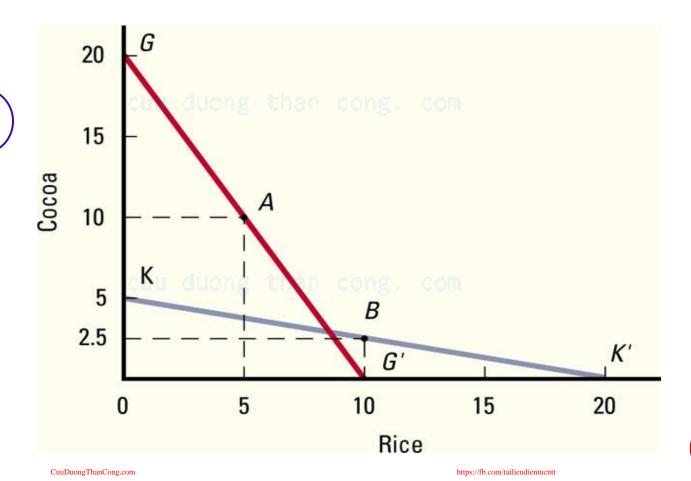
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- O After trade
 - OGhana would have 14 tons of cocoa left, and 6 tons of rice
 - South Korea would have 14 tons of rice left and 6 tons of cocoa
- O Both countries gained from trade

5-16



The Theory of Absolute Advantage

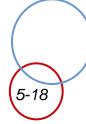


5-17



Absolute Advantage and the Gains from Trade

	Cocoa	Rice
Ghana	10	20
South Korea	han 40ong . C	10
Production a	nd Consumption without Trade	
	Cocea	Rice
Ghana	10.0	5.0
South Korea	2.5	10.0
Total production	12.5	15.0
Produc	ction with Specialization	
	Cocoa	Rice
Shana	20.0	0.0
South Korea	han cong	20.0
Total production	20.0	20.0
	hana Trades 6 Tons of Cocoa for 6 To I South Korean Rice	ons
	Cocoa	Rice
Ghana	14.0	6.0
South Korea	6.0	14.0
Increase in Consumption	on as a Result of Specialization and	Trade
	Cocoa	Rice
Ghana	4.0	1.0
South Korea	3.5	4.0

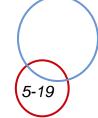


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- O In 1817, David Ricardo explored what might happen when one country has an absolute advantage in the production of all goods
- According to Ricardo's theory of comparative advantage, it makes sense for a country to specialize in the production of those goods that it produces most efficiently and to buy the goods that it produces less efficiently from other countries, even if this means buying goods from other countries that it could produce more efficiently itself





Comparative Advantage

- O Assume
 - OGhana is more efficient in the production of both cocoa and rice
 - OIn Ghana, it takes 10 resources to produce one tone of cocoa, and 13 1/3 resources to produce one ton of rice
 - OSo, Ghana could produce 20 tons of cocoa and no rice, 15 tons of rice and no cocoa, or some combination of the two

5-20



- OIn South Korea, it takes 40 resources to produce one ton of cocoa and 20 resources to produce one ton of rice
- OSo, South Korea could produce 5 tons of cocoa and no rice, 10 tons of rice and no cocoa, or some combination of the two
- Olf each country specializes in the production of the good in which it has a comparative advantage and trades for the other, both countries will gain

5-21

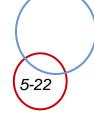




- OGhana could export 4 tons of cocoa to South Korea in exchange for 4 tons of rice
- OGhana will still have 11 tons of cocoa, and 4 additional tons of rice

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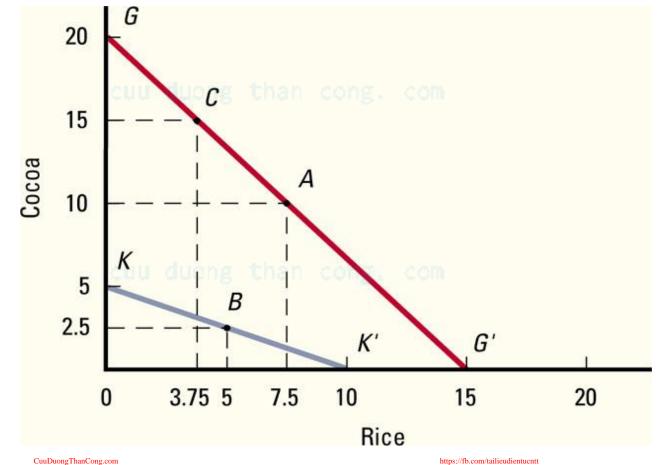
South Korea still has 6 tons of rice and 4 tons of cocoa



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The Theory of Comparative Advantage



5-23

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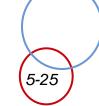
Which theory did not suggest that there could be gains from specialization and trade?

- a) Mercantilism
- b) Absolute advantage
- c) Comparative advantage
- d) Heckscher-Ohlin theory

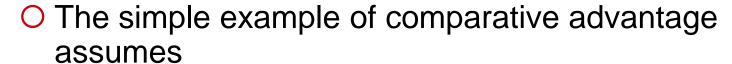
5-24



- The theory of comparative advantage argues that trade is a positive sum gain in which all gain
 - Potential world production is greater with unrestricted free trade than it is with restricted trade
- O The theory of comparative advantage provides a strong rationale for encouraging free trade







- Only two countries and two goods
- Ozero transportation costs
- similar prices and values
- resources are mobile between goods within countries, but not across countries
- Oconstant returns to scale
- Ofixed stocks of resources
- no effects on income distribution within countries

5-26





- 1. Resources move freely from the production of one good to another within a country
- 2. There are constant returns to scale
- 3. Trade does not change a country's stock of resources or the efficiency with which those resources are utilized

5-27



1. Immobile Resources

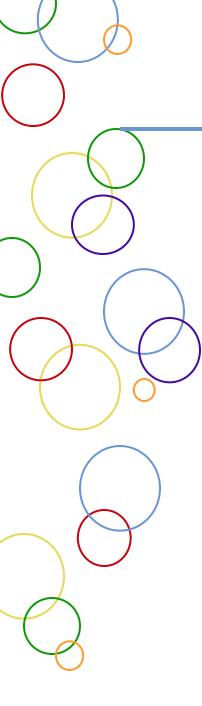
- Resources do not always move freely from one economic activity to another
- O Governments may help retrain displaced workers
- 2. Diminishing Returns

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O The simple model assumes constant returns to specialization (the units of resources required to produce a good are assumed to remain constant), but an assumption of diminishing returns is more realistic since not all resources are of the same quality and different goods use resources in different proportions

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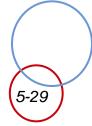
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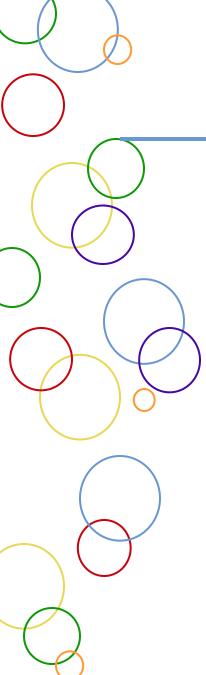




3. Dynamic Effects and Economic Growth

- Trade might increase a country's stock of resources as increased supplies become available from abroad
- Free trade might increase the efficiency of resource utilization, and free up resources for other uses





Extensions of the Ricardian Model

The Samuelson Critique

- O Paul Samuelson argued that in some cases, dynamic gains can lead to less beneficial outcomes
 - OHe is concerned that the ability to offshore services jobs that were traditionally not internationally mobile may have the effect of a mass inward migration into the United States, where wages would then fall

5-30



The Link between Trade and Growth

- OStudies exploring the relationship between trade and economic growth suggest that countries that adopt a more open stance toward international trade enjoy higher growth rates than those that close their economies to trade
 - OHigher growth rates raise income levels and living standards

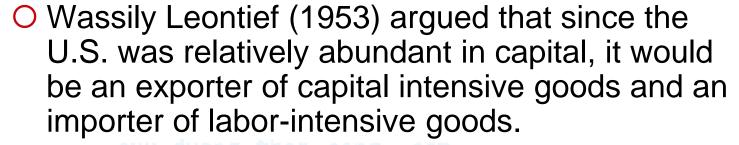




- O Heckscher and Ohlin argued that comparative advantage arises from differences in national factor endowments (the extent to which a country is endowed with resources such as land, labor, and capital)
 - The more abundant a factor, the lower its cost
 - Countries will export goods that make intensive use of those factors that are locally abundant, and import goods that make intensive use of factors that are locally scarce

(5-32





- Leontief found however, that U.S. exports were less capital intensive than U.S. imports
- O Possible explanations for these findings include
 - Othat the U.S. has a special advantage in producing products made with innovative technologies that are less capital intensive
 - Odifferences in technology lead to differences in productivity which then drives trade patterns

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5-33





Which theory viewed trade as a zero sum game?

- a)Mercantilism
- b)Absolute advantage
- c)Comparative advantage
- d)Heckscher-Ohlin theory

5-34



- ORaymond Vernon (mid-1960s) proposed the product life-cycle theory suggesting that as products mature both the location of sales and the optimal production location will change affecting the flow and direction of trade
- OIn the mid-1960s, the wealth and size of the U.S. market gave a strong incentive to U.S. firms to develop new products

5-35

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- O According to Vernon, in the early stages of a product's life cycle demand may grow in the U.S., but demand in other advanced countries is limited to highincome groups
- OTherefore, it is not worthwhile for firms in those countries to start producing the new product, but it does necessitate some exports from the U.S. to those countries

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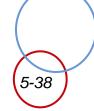


- Over time, demand for the new product starts to grow in other advanced countries making it worthwhile for foreign producers to begin producing for their home markets
- O U.S. firms might also set up production facilities in those advanced countries where demand is growing limiting the exports from the U.S.
- As the market in the U.S. and other advanced nations matures, the product becomes more standardized, and price becomes the main competitive weapon



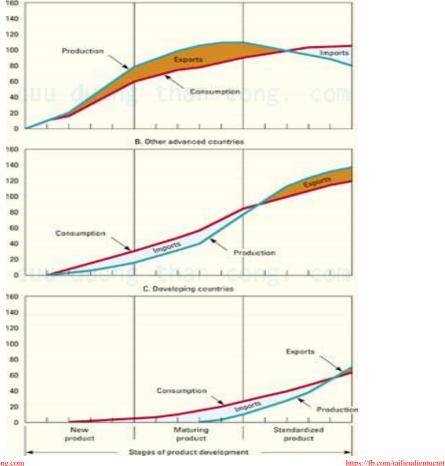


- Producers based in advanced countries where labor costs are lower than the United States might now be able to export to the U.S.
- If cost pressures become intense, developing countries begin to acquire a production advantage over advanced countries
- O The United States switches from being an exporter of the product to an importer of the product as production becomes more concentrated in lower-cost foreign locations



The Product Life Cycle Theory





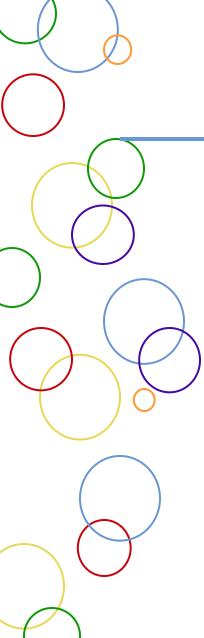
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- O While the product life cycle theory accurately explains what has happened for products like photocopiers and a number of other high technology products developed in the US in the 1960s and 1970s, the increasing globalization and integration of the world economy has made this theory less valid in today's world
 - Today, many new products are initially introduced in Japan or Europe, or are introduced simultaneously in the U.S., Japan, and Europe
 - Production may also be dispersed to those locations where it is most favorable

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New Trade Theory

New trade theory (1970s) suggests

- 1. Because of economies of scale (unit cost reductions associated with a large scale of output), trade can increase the variety of goods available to consumers and decrease the average cost of those goods
- 2. In those industries when the output required to attain economies of scale represents a significant proportion of total world demand, the global market may only be able to support a small number of firms

5-41



- O Without trade
 - Oa small nation may not be able to support the demand necessary for producers to realize required economies of scale, and so certain products may not be produced
- O With trade
 - Oa nation may be able to specialize in producing a narrower range of products and then buy the goods that it does not make from other countries
 - each nation then simultaneously increases the variety of goods available to its consumers and lowers the costs of those goods

5-42

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Economies of Scale, First Mover OAdvantages and the Pattern of Trade

- O Firms with first mover advantages (the economic and strategic advantages that accrue to many entrants into an industry) will develop economies of scale and create barriers to entry for other firms
- The pattern of trade we observe in the world economy may be the result of first mover advantages and economies of scale

5-43





- Onations may benefit from trade even when they do not differ in resource endowments or technology than cong. com
- Oa country may predominate in the export of a good simply because it was lucky enough to have one or more firms among the first to produce that good
- O Thus, new trade theory provides an economic rationale for a proactive trade policy that is at variance with other free trade theories

5-44



- Porter (1990) tried to explain why a nation achieves international success in a particular industry
- Porter identified four attributes he calls the diamond that promote or impede the creation of competitive advantage
 - 1. Factor endowments
 - 2. Demand conditions
 - 3. Related and supporting industries
 - 4. Firm strategy, structure, and rivalry
- In addition, Porter identified two additional variables (chance and government) that can influence the diamond in important ways

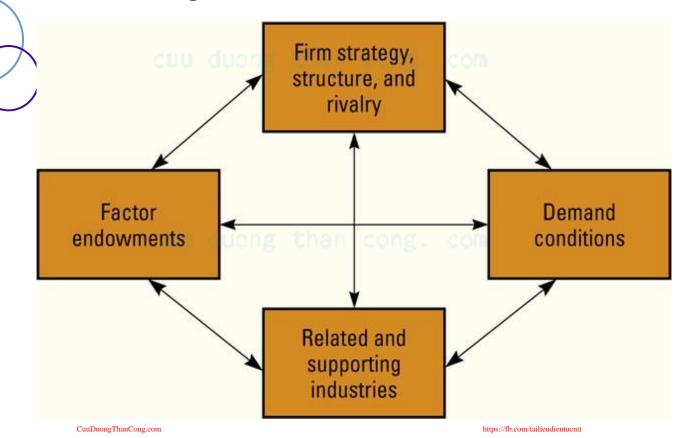
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National Competitive Advantage: Porter's Diamond

Determinants of National Competitive Advantage: Porter's Diamond



5-46



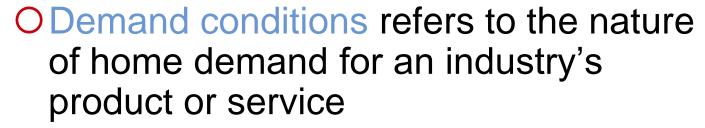
- A nation's position in factor endowments (factors of production) can lead to competitive advantage
- O These factors can be either basic (natural resources, climate, location) or advanced (skilled labor, infrastructure, technological know-how)
- OBasic factors can provide an initial advantage that is then reinforced and extended by investment in advanced factors

5-47

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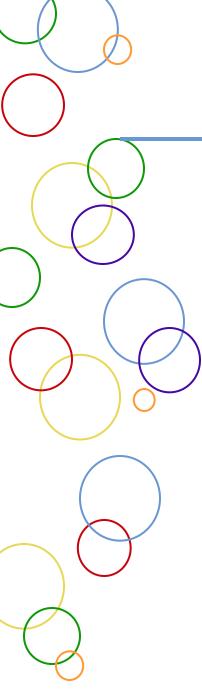
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- Demand conditions influence the development of capabilities
- Sophisticated and demanding customers pressure firms to be more competitive and to produce high quality, innovative products





Related and Supporting Industries

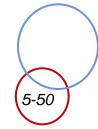
- O Related and supporting industries refers to the presence supplier industries and related industries that are internationally competitive
- Investing in these industries can spill over and contribute to success in other industries
- Successful industries tend to be grouped in clusters in countries which them prompts knowledge flows between firms
 - Having world class manufacturers of semiconductor processing equipment can lead to (and be a result of having) a competitive semi-conductor industry

5-49



Economies of scale and first mover advantages are central to which theory of trade

- a) Porter's diamond of competitive advantage
- b) New trade theory
- c) Vernon's product life cycle
- d) Comparative advantage



Firm Strategy, Structure, and Rivalry

- O Firm strategy, structure, and rivalry refers to the conditions in the nation governing how companies are created, organized, and managed, and the nature of domestic rivalry
- O Different nations are characterized by different management ideologies which influence the ability of firms to build national competitive advantage
- There is a strong association between vigorous domestic rivalry and the creation and persistence of competitive advantage in an industry

5-51



- O Porter suggests that the four attributes of the diamond together with government policy, and chance work as a reinforcing system, complementing each other and in combination creating the conditions appropriate for competitive advantage
- O Porter believes that government policy can affect demand through product standards, influence rivalry through regulation and antitrust laws, and impact the availability of highly educated workers and advanced transportation infrastructure

5-52

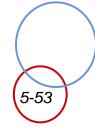


Question: Is Porter right?

- O If Porter is correct, his model should predict the pattern of international trade in the real world
 - Countries should export products from industries where the diamond is favorable
 - Countries should import products from areas where the diamond is not favorable

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O So, far there has been little empirical testing of the theory one than cong. com



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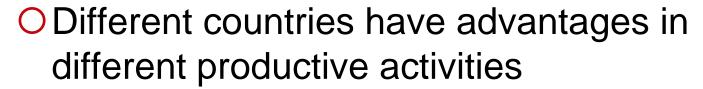
Question: What are the implications of international trade theory for international businesses?

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- There are at least three main implications for international businesses
 - 1. Location implications
 - 2. First-mover implications
 - 3. Policy implications

5-54





- These differences influence a firm's decision about where to locate productive activities
- Olt makes sense for a firm to disperse its various productive activities to those countries where they can be performed most efficiently



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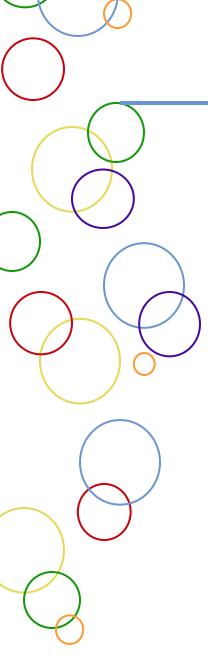
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- O Firms that establish a first-mover advantage in the production of a new product may later dominate global trade in that product
 - Olt can be worthwhile for a firm to invest resources in trying to build firstmover advantages, even if it means losses for a few years before a venture becomes profitable

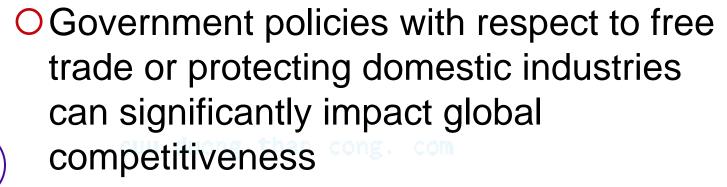
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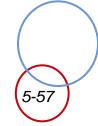


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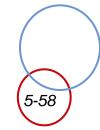
 Businesses should work to encourage governmental policies that support free trade





Porter's Diamond is made up of all of the following except

- a) Factor endowments
- b)Related and supporting industries
- c)Firm strategy, structure, and rivalry
- d)Supply conditions



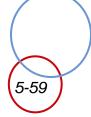


1. "Mercantilism is a bankrupt theory that has no place in the modern world."

Discuss.

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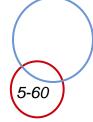




2. Is free trade fair? Discuss!

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Critical Discussion Question

3. Unions in developed nations often oppose imports from low-wage countries and advocate trade barriers to protect jobs from what they often characterize as "unfair" import competition. Is such competition "unfair?" Do you think that this argument is in the best interests of (a) the unions, (b) the people they represent, and/or (c) the country as a whole?

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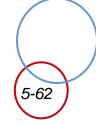
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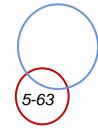
4. What are the potential costs of adopting a free trade regime? Do you think governments should do anything to reduce these costs? What?

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- 5. Reread the Country Focus on "Is China a Neo-Mercantilist Nation?"
- a) Do you think China is pursuing an economic policy that can be characterized as neo-Mercantilist?
- b) What should the United States, and other countries, do about this?



Critical Discussion Question

6. Drawing upon the new trade theory and Porter's theory of national competitive advantage, outline the case for government policies that would build national competitive advantage in biotechnology. What kind of policies would you recommend that the government adopt? Are these policies at variance with the basic free trade philosophy?

5-64

Critical Discussion Question

7. The world's poorest countries are at a competitive disadvantage in every sector of their economies. They have little to export. They have no capital; their land is of poor quality; they often have too many people given available work opportunities; and they are poorly educated. Free trade cannot possibly be in the interests of such nations! Discuss.

5-65