CONCEPT: THE PRODUCTION FUNCTION AND MARGINAL REVENUE PRODUCT

• Factors of Production (Resources) are classified into the following categories:						
	Land – all	used in the production process				
	Labor – physical and mental contributions of the	e people in the production process				
	Physical Capital – factories and equipment us	ed in the production process				
	Human Capital – productivity of the labor force					
	Entrepreneurship – the resource that organize	es, manages, and assembles the other factors of production				
• The <i>production function</i> relates the amount of inputs (i.e. workers) to the amount of output (i.e. quantity)						
	Marginal Product of Labor – increase in outpo	ut from adding one more worker				
- Value of the Marginal Product of Labor =						
EXAMPLE	: A local pizza shop leases two pizza ovens for	a total daily cost of \$100. The pizza company is deciding ho				
many emp	loyees to hire at a wage of \$80 per day. Assum	e the cost of ingredients is negligible. Each pizza sells for \$5				

Number of Pizza Ovens	Number of Workers	Total Quantity of Pizzas	Marginal Product of Labor	Marginal Revenue Product	Wage	Marginal Profit
2	0	0				
2	1	30				
2	2	80				
2	3	150				
2	4	180				
2	5	190				

☐ A competitive,	profit-maximizing firm will hire worke	ers up to the point where	
□ The	is the firm's	for labor	