



4 Firm Concentration Ratio

100+0+0+0 = 100%

Number of **Firms**

Share of the market



10,000

100%

100/10,000 =0.01%

The Herfindahl-Hirschman Index

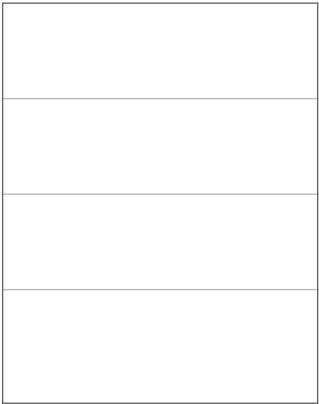
 $100^2 = 10,000$

50+50+0+0=100%

0.01+0.01+0.01+0.01 = 0.04%

 $50^2 + 50^2 = 2 \times (50^2) = 5,000$

 $10,000 \times (0.01^2) = 1$



Monopoly

Duopoly

Perfect Competition

	Number of Firms	Share of the market	4 Firm Concentration Ratio	The Herfindahl– Hirschman Index
Monopoly	1	100%	100+0+0+0 = 100%	$100^2 = 10,000$
Duopoly	2	50%	50+50+0+0 = 100%	$50^2 + 50^2 = 2 \times (50^2) = 5,000$
Perfect Competition	10,000	100/10,000 = 0.01%	0.01 + 0.01 + 0.01 + 0.01 = 0.04%	$10,000 \times (0.01^2) = 1$

A Comparison of Various Market Structures

Structure	Monopoly	Oligopoly	Monopolistic Competition	Perfect Competition
Number of Firms	One	Few	Many	Almost infinite
Barriers to Entry	Significant	Significant	Few	None
Pricing Decisions	MC = MR	Strategic pricing, between monopoly and perfect competition	MC = MR	MC = MR = P
Output Decisions	Most output restriction	Output somewhat restricted	Output restricted somewhat by product differentiation	No output restriction
Interdependence	Only firm in market, not concerned about 9 competitors	Interdependent strategic pricing and output decision	Each firm acts independently	Each firm acts independently
Profit	Possibility of long-run economic profit	Some long-run economic profit possible	No long-run economic profit possible	No long-run economic profit possible
P and MC	P > MC	P > MC	P > MC	P = MC