Name:		Date:	Period:							
Supply and Demand ~ The Pearl Exchange										
Pearls from the island of Bali are valued all over the world. Buyers and sellers meet weekly at the pearl exchange market here in room P-101. During the 5 minute long trading sessions, half the class will be buyers the other half will be sellers. Your goal is to make as much surplus (profit) by negotiating a favorable price.										
 The buyer must try to buy pearls as cheaply as they can; if they pay less than their maximum price then they get a consumer surplus. Sellers must try to sell their product for as much as they can, if they sell above the minimum price they get a seller's surplus. 										
There will be four trading sessions and you can only sell/buy once per session. When you make a deal shake hands and go tell Mr. Cooper your selling price to record on the front board. Then record the information for selling/ buying on your worksheet at your desk. Don't tell people what your max or minimum price was until after we talk about the round. The goal is to make a transaction each and every round you are participating. If you do not buy a product that round, your maximum or minimum price becomes a negative amount!										
How to calculate a buyer' buyer surplus (profit) = bu	<u>s surplus:</u> uyer's max price – sold pri	ce								
How to calculate a seller's seller's surplus (profit) = s	s surplus: sold price – seller's minim	um price								
	TRADING	RECORD								
Round 1 Note: For round 1, the su	rplus will be equal to total	because we just started!								
Max/min price	Price you paid/bought for	Surplus	Total							
Equilibrium price =	(average pric	e for sold pearls)								
Round 2 Max/min price	Price you paid/bought for	Surplus	Total							

Equilibrium price = _____ (average price for sold pearls)

Round 3		-1-26 - 1 - 1 - 1	
	surplus can be negative if you		
Max/min price	Price you paid/bought for	Surplus	Total
Equilibrium price =	(average pric	e for sold pearls)	
Round 4			
Max/min price	Price you paid/bought for	Surplus	Grand Total
Equilibrium price =	(average pric	e for sold pearls)	
	<u>REVIEW Q</u>	<u>UESTIONS</u>	
1. What was your grad	nd total surplus?		
2. Was it positive or n	egative?		
3. What occurred to t	he equilibrium price? Did it i	ncrease, decrease, or fluc	tuate over time?
4. Did you sell or buy	every single trading session?	' If you didn't explain why	you couldn't do so.
5. What sorts of strate	egies worked when trying to	sell for a higher price?	
<u> </u>	orked when trying to buy at a	·	
7. If supply is low (mo	ore buyers than sellers) what se?	happens to the price of t	
8. If demand is low (m	nore sellers than buyers) wha	at happens to the price of	the pearls? Did they

increase or decrease? _____

Name:		Date:	Per:				
	PRICE	ELASTICITY OI	F SUPPLY WORK	KSHEET			
then the more	Supply: Measure of he responsive producer the less responsive the	will be to a change i	in price according t	o the Law of Sup	ply. The lower the		
	or Inclastic or the following good oplanation why.	s below identify if th	ne good is likely to	be price elastic or	inelastic, then		
Good/Service	- Automotive and the second	Elastic/Inelastic	Explanation				
Strawberries							
Hamburgers							
Oil Changes							
Aircraft Carr	iers						
Toothpicks		5					
Part II: Elast Directions: Bo or Unitary El	elow create a graph fo						
	RANGES		M SCOOPS	TOY CARS			
Price (\$ per lb)	Quantity (thousands of lbs)	Price of Ice Cream (\$)	Quantity Supplied (millions)	Price	Quantity Supplied (millions)		
50	28	1.75	55	2.50	50		
40	26	1.50	45	2.00	40		
30	24	1.25	35	1.50	30		
20	22	1.00	25	1.00	20		
10	20	.75	15	.5	10		
(GRAPH	.50 GRA	5 APH	GI	RAPH		
Elastic, Inc	elastic or Unitary	Elastic, Inelas	tic or Unitary	Elastic, Inela	istic, or Unitary		
· ·	Elastic	Ela		·	lastic		

Part II: Calculating Elasticity

1 A PI C C O C	
1. An Elasticity of 1.0 of greater =	supply
2. An Elasticity of exactly 1.0 =	supply

3. An Elasticity of between 0 and 1.0 = suppl

Use the Elasticity formula to calculate values of Elasticity for all the situations below. Change negatives to positives.

STEP 1: Calculate the % change in quantity supplied - %ΔS
[ODSupplied1 (New) – OSupplied2(Original)] / QSupplied1(Original)

STEP 2: Calculate the % change in price - %ΔP
[Price1(New) – Price2(Original)] / Price1(Original)

STEP 3: Calculate the price elasticity of Supply - %ΔQ / %ΔP
% Change in Quantity Supplied(STEP 1) / % Change in Price (STEP 2)

Quantity Pric		ice	STEP 1	STEP 2	STEP 3		
Original	New Q	Original	New	% Change in S	% Change in Price	Elasticity	
Q (S1)	(S2)	Price (P1)	Price (P2)			Calculation	
15	20	40	80				
40	70	35	40				

IV. Calculating Elasticity from Supply Schedules

As seen above, in order to calculate elasticity all you need is price points and quantity supplied. This information is listed in any supply schedule. Choose any two price points and quantities in order to calculate elasticity for that price change. However, remember that elasticity changes throughout the supply curve, so you are only calculating for that specific price change.

Directions: Use the information from the Supply Schedules below to calculate elasticity for each product. Use the highlighted prices and quantities for your calculation. **SHOW YOUR WORK!**

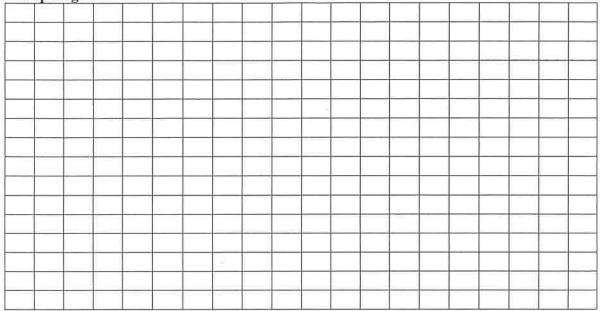
0	RANGES	ICE CREA	M SCOOPS	TOY CARS			
Price (\$ per ton)	per (thousands of Cream (\$)		Quantity Supplied (millions)	Price	Quantity Supplied (millions)		
50	28	P2 - 1.75	85	2.50	50		
40	26	P1 - 1.50	55	2.00	40		
30	24	1.25	35	1.50	30		
P2- 20	S2 -22	1.00	20	P2 - 1.00	S2 - 20		
P1 -10	S1 -20	.75	10	P150	S1 - 10		
		25	5				

1.	Oranges Price Elasticity of Supply:	_(Calculation) +	(Elastic, Inelastic, Unitary)
2.	Ice Cream Price Elasticity of Supply:	(Calculation) +	(Elastic, Inelastic, Unitary)
3.	Toy Cars Prices Elasticity of Supply:	(Calculation) +	(Elastic, Inelastic, Unitary)

Name:	Date:	Per:

Interfering with Equilibrium: Price Ceilings and Price Floors

Graphing Rent Control



Directions: Graph the following supply and demand curves for apartments in NYC, then add in the rent control line and answer the questions below. Make sure to label all parts!

Demand		Supply	
Price:	Quantity:	Price:	Quantity:
\$750	40,000	\$750	4,000
\$1,000	34,000	\$1,000	10,000
\$1,250	28,000	\$1,250	16,000
\$1,500	22,000	\$1,500	22,000
\$1,750	16,000	\$1,750	28,000
\$2,000	10,000	\$2,000	34,000
\$2,250	4,000	\$2,250	40,000

Rent Control = \$1,250

1_{\odot}	What is the equilibri	um price		and quanti	ty?	
2.	With the rent control	set at \$1,250,	what is the	shortage (qua	ntity) of apartments in	
	NYC?	Is this a price	ceiling or a	price floor?		

3. What are some realistic options that could be explored to address the shortage of apartments by NYC government officials?

Graphing Minimum Wage

	1	_ 0				0								 		_		_
_	_	_	+			_							_	_		_	_	-
_			_			-	_	_				_			_	_		-
					1													
							-											
						1												
			1															
		_	-		_	_	_		_		_	_	_	 _	_	_		-
		1	1	1														1
_						-											-	
			1															1
_		_	-	_	_	_	_	_		_					_		_	-
		l .	1															1
																		1
			_															
																		1
_		-	-	_		-		_		_	_		_			-		-
														 				<u> </u>
																		i .
						1	1											

Directions: Graph the following supply and demand curves for labor in the US, then add in the minimum wage line and answer the questions below. Make sure to label all parts!

Demand		Supply	
Price:	Quantity:	Price:	Quantity:
\$1	30 million	\$1	5 million
\$3	25 million	\$3	10 million
\$5	20 million	\$5	15 million
\$7	15 million	\$7	20 million
\$9	10 million	\$9	25 million
\$11	5 million	\$11	30 million

Minimum Wage = \$7.25

1_{∞}	What is the equilibrium price? and quantity?
2.	With the minimum wage set at \$7.25, what is the surplus (quantity) of labor in the US?
3.	Is this a price ceiling or a price floor?
4.	What are some realistic options that the Federal Government could explore to deal with
	the surplus of labor?