

























<u>(1)</u>	$(3) = (1) \times p$	<u>(4)</u>	(6) = (4) + (1)	(7) = (3) - (4)	
Bushels of					
Wheat	Total	Total	Average	Economic	
per day	Revenue	Cost	Total Cost	Profit or	
(q)	$(\mathbf{TR} = \mathbf{q} \times \mathbf{p})$	(TC)	ATC =°TC / q	Loss = TR - TC	
0	\$0	\$15.00		-\$15.00	
1	φ0 5	19 75	\$19.75	-\$15.00	
2	10	23.50	11.75	-13.50	
3	15	26.50	8.83	-11.50	
4	20	29.00	7.25	-9.00	
5	25	31.00	6.20	-6.00	
6	30	32.50	5.42	-2.50	
7	35	33.75	4.82	1.25	
8	40	35.25	4.41	4.75	
9	45	37.25	4.14	7.75	
10	50	40.00	4.00	10.00	
11	55	43.25	3.93	11.75	
12	60	48.00	4.00	12.00	Profit maximization
13	65	54.50	4.19	10.50	
14	70	64.00	4.57	6.00	
15	75	77.50	5.17	-2.50	
16	- 80	96.00	6.00	-16.00	
					1





(<u>1)</u> Bushels of	(<u>2)</u> Margina	$\frac{(3) = (1) \times (2)}{1}$	<u>(4)</u>	(5)	(6) = (4) + (1)	(7) = (3) - (4)
Wheat	Revenue	Total	Total	Marginal	Average	Economic
per day	(Price)	Revenue	Cost	Cost	Total Cost	Profit or
(q)	(p)	$(\mathbf{TR} = \mathbf{q} \times \mathbf{p})$	(TC)	ΜC=ΔTC/Δ Ο	ATC = TC / q	Loss = TR - TC
0		\$0	\$15.00		00	-\$15.00
1	\$5	5	19.75	\$4.75	\$19.75	-14.75
2	5	10	23.50	3.75	11.75	-13.50
3	5	15	26.50	3.00	8.83	-11.50
4	5	20	29.00	2.50	7.25	-9.00
5	5	25	31.00	2.00	6.20	-6.00
6	5	30	32.50	1.50	5.42	-2.50
7	5	35	33.75	1.25	4.82	1.25
8	5	40	35.25	1.50	4.41	4.75
9	5	45	37.25	2.00	4.14	7.75
10	5	50	40.00	2.75	4.00	10.00
11	5	55	43.25	3.25	3.93	11.75
12	5	60	48.00	4.75	4.00	12.00
13	5	65	54.50	6.50	4.19	10.50
14	5	70	64.00	9.50	4.57	6.00
15	5	75	77.50	13.50	5.17	-2.50
16	5	80	96.00	18.50	6.00	-16.00

The firm will increase quantity supplied as long as each additional unit adds more to total revenue than to total cost \Rightarrow MR>MC.

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Short-Run Profit Maximization MR=MC at point *e* where output is 12 bushels per day. Output <12 Marginal cost MR>MC Average total cost →Increase profit by expanding output. \$5 = Marginal revenue Output>12 Profit = average revenue MC>MR 4 -➔ Increase profit by reducing output. Dollars per unit Profit appears in the *blue* shaded rectangle. Each unit earns: (price) \$5 -average cost \$4 ו 5 10 12 15 Bushels of wheat per day 0 18









	(1) Bushels of Wheat	(2) Margina Revenue	$(3) = (1) \times (2)$ I Total Bayanna	(4) Total	(5) Marginal	(6) = (4) + (1) Average	(7) Average Variable	(8) = (3) - (4) Economic	
	<u>(q)</u>	(I IICe) (p)	$(\mathbf{TR} = \mathbf{q} \times \mathbf{p})$	(TC)	MC=ATC/AQ	ATC = TC /q	AVC = TVC / q	Loss = TR - TC	
Shut dov	,n 0		\$0	\$15.00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	-\$15.00	- Fixed cos
mai uon	1	\$3	3	19.75	\$4.75	\$19.75	\$4.75	-16.75	
	2	3	6	23.50	3.75	11.75	4.25	-17.50	
	3	3	9	26.50	3.00	8.83	3.83	-17.50	
	4	3	12	29.00	2.50	7.25	3.50	-17.00	
	5	3	15	31.00	2.00	6.20	3.20	-16.00	
	6	3	18	32.50	1.50	5.42	2.92	-14.50	
	7	3	21	33.75	1.25	4.82	2.68	-12.75	
	8	3	24	35.25	1.50	4.41	2.53	-11.25	
	9	3	27	37.25	2.00	4.14	2.47	-10.25	
	10	3	30	40.00	2.75	4.00	2.50	-10.00	
	11	3	33	43.25	3.25	3.93	2.57	-10.25	
	12	3	36	48.00	4.75	4.00	2.75	-12.00	
	13	3	39	54.50	6.50	4.19	3.04	-15.50	
	14	3	42	64.00	9.50	4.57	3.50	-22.00	
	15	3	45	77.50	13.50	5.17	4.17	-32.50	
	16	3	48	96.00	18.50	6.00	5.06	-48.00	





(1)	(2)	$(3) = (1) \times (2)$	(4)	(5)	(6) = (4) + (1)	(7)	(8) = (3) - (4)
Bushels of	Margina	1				Average	
Wheat	Revenue	Total	Total	Marginal	Average	Variable	Economic
per day	(Price)	Revenue	Cost	Cost	Total Cost	Cost	Profit or
<u>(q)</u>	(p)	$(\mathbf{T}\mathbf{R} = \mathbf{q} \times \mathbf{p})$	(TC)	ΜC=ΔΤC/ΔQ	ATC = TC/q	AVC = TVC / q	Loss = TR - TC
0		\$0	\$15.00				-\$15.00
1	\$2	2	19.75	\$4.75	\$19.75	\$4.75	-17.75
2	2	4	23.50	3.75	11.75	4.25	-19.50
3	2	6	26.50	3.00	8.83	3.83	-20.50
4	2	8	29.00	2.50	7.25	3.50	-21.00
5	2	10	31.00	2.00	6.20	3.20	-21.00
6	2	12	32.50	1.50	5.42	2.92	-20.50
7	2	14	33.75	1.25	4.82	2.68	-19.75
8	2	16	35.25	1.50	4.41	2.53	-19.25
9	2	18	37.25	2.00	4.14	2.47	-19.25
10	2	20	40.00	2.75	4.00	2.50	-20.00
11	2	22	43.25	3.25	3.93	2.57	-21.25
12	2	24	48.00	4.75	4.00	2.75	-24.00
13	2	26	54.50	6.50	4.19	3.04	-26.50
14	2	28	64.00	9.50	4.57	3.50	-36.00
15	2	30	77.50	13.50	5.17	4.17	-47.50
16	2	32	96.00	18.50	6.00	5.06	-64.00
If p	2 orice=	22 2, since	96.00 PAVC	$\frac{18.50}{C > Price}$	at all ou	tput rates	-64.00





















































































