Enterprise Budget In-Class Exercise

Andy has been working for his neighbor, growing tomatoes, for the past 3 years. Now, Andy is thinking that he would like to start producing and selling fresh-market tomatoes at the local market. But he isn't quite sure whether he can make money at this or not. So, he has come to you for help.

You told Andy to make a list of all the inputs (fertilizer, transplants, mulch, etc.) that he would be using to produce tomatoes and what they will cost. He came up with this production information as shown on the attached enterprise budget. Please help him complete the budget and help him make the decision whether he should start growing tomatoes or not.

1.	Calculate the Revenue (sales income) that Andy can earn by selling 500 cartons of tomatoes at \$10/carton.
	Enter your answer in the Total column of the budget.

- 2. There are no other sources of revenue for the tomato enterprise. Calculate the **Total Revenues** that Andy can earn from growing and selling 1 acre of tomatoes. Enter your answer in the Total Column.
- 3. Andy thinks he will need 80 lbs. of nitrogen for his acre of tomatoes. Nitrogen costs \$0.45/lb. How much will Andy need to spend on **nitrogen** for his one acre of tomatoes? Enter your answer in the Total Column of the Nitrogen row of the budget.
- 4. Andy will have to borrow the money to buy the inputs necessary to grow one acre of tomatoes. He thinks it will cost him \$4,239 to grow one acre of tomatoes (by adding up the variable costs in the total column). He can borrow the money at a 6% annual interest rate from his lender. He will only need to money for 3 months, after which he will repay all of the money, plus interest, to the lender. Calculate the amount of interest Andy will owe for borrowing the money for 3 months at 6% interest. Enter your answer in the Total Column on the Interest on Operating Capital row of the budget.

Interest on = Amount x Interest x Portion of the Year the Operating Capital borrowed rate money is borrowed

5.	Calculate the Total Operating Costs for this tomato enterprise by adding all of the operating costs on the budget.
6	What are 3-4 actions that Andy can take to improve the profitability of the tomato enterprise?

		Fresh	-Market	: Tomatoes	(1 acre)			
		25	lbs/cartor					
Revenue	es		Quantity	Units/Acre	Pri	ce	Total	
	Tomatoes		500	cartons	\$10.00	/carton		
	Other						\$0.00	
	Total Reve	enues						/acre
Variable	Costs:							
	Fertilizer							
	Nitroger	1	80	lbs	\$0.45	/lb		
	Phospho	rus	100	lbs	\$0.32	/lb	\$32.00	
	Potassiu		150	lbs	\$0.30	/lb	\$45.00	
	Lime		0.5	tons	\$30.00	-	\$15.00	
	Custom	Application		acre	\$21.00	•	\$21.00	
	Pest Scout			times	\$10.00	-	\$80.00	
	Herbicide	Ū		acre	\$95.00		\$95.00	
	Fungicide			acre	\$500.00	-	\$500.00	
	Insecticide			acre	\$207.00	-	\$207.00	
	Land Prep			acre	\$53.00		\$53.00	
	·	lulch instal		acre	\$70.00		\$70.00	
	Plastic N			acre	\$300.00	-	\$300.00	
		ation (tape		acre	\$150.00	-	\$150.00	
		Transplants		acre	\$100.00	-	\$500.00	
	Stakes	manspiant.		acre	\$100.00	-	\$250.00	
	Labor		2500	acre	\$100.00	7 1,000	\$230.00	
		trancalant	4	0.000	¢00.00	lacro	¢00.00	
		transplant		acre hours	\$90.00	-	\$90.00	
	Staking 8					/hour	\$136.00	
		ng & advert		acre	\$50.00		\$50.00	
	Hand ha			acre	\$800.00	-	\$800.00	
	Pest Con			acre	\$17.00		\$17.00	
		ds, shippir		cartons		/carton	\$750.00	
	Fuel			gallons		/gallon	\$33.00	
	· ·	ractors & i		acre	_	/acre	\$9.00	
	Interest o	6%	3	months	\$4,239.00	/acre		_
		able Costs						/acre
		ove Variab						/acre
				Cover Variabl				cartons/acre
	Minimu	m Price Ne	cessary to	Cover Variabl	e Costs			/carton
Fixed Co								
		Implemer		acre		/acre	\$125.00	
		tion Equip	1	acre	\$500		\$500.00	
	Land Char	ge	1	acre	\$150	/acre	\$150.00	
	Total Fixe	d Costs					\$775.00	/acre
	Total Cost	S						/acre
		ove Total (/acre
	Minimum Yield Necessary to Cover Total Costs							cartons/acre