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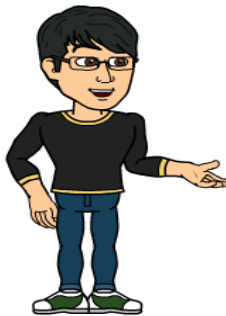
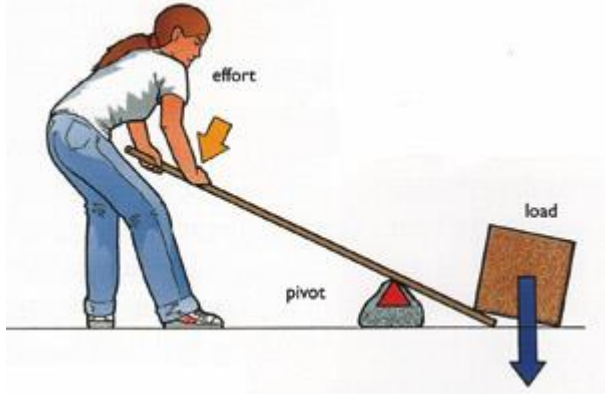


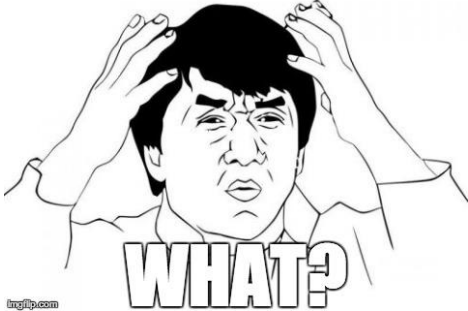
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MANU		VINU			
		CONVERSATION BETWEEN MANU AND VINU ABOUT <u>LEVERAGE</u>			
Manu	Hi Vinu!				
Vinu	Hi Guruji!!				
Manu	Guruji??				
Vinu	Yes! Today you are going to teach me about Leverage concepts in Financial Management. So you are my Guru now 😊				
Manu	With pleasure! I love teaching and it's my passion. Straight to the topic! Leverage is one of the beautiful and important concept in Financial Management.				
Vinu	I know, that Lever is a technical tool. But how it is used in Financial Management?				
Manu	That's a good observation. What is the purpose of Lever?				
Vinu	As for as I understand, Lever can be used for lifting heavy weight by giving less pressure.				
Manu	<p>Yes! Exactly and this would be the process!</p>				
Vinu	Yes!				
Manu	In the same way, you can also achieve better profits in your business by following principles of lever. i.e., leverage				
Vinu	How?				
Manu	If you have more fixed costs in your business, you can make more profits!				

Vinu		<p>What???????????</p> <p>That sounds very strange and how do you say that?</p> <p>More fixed cost is a cost.</p> <p>Higher cost will reduce the profits.</p>								
Manu	<p>I agree!</p> <p>But still, more fixed cost means, you can make more profits!</p>									
Vinu	<p>I just can't digest that! Please explain me with some numbers!</p>									
Manu	<p>Ok!</p> <p>Assume a sales for 2013-14</p>									
Vinu	<p>Ok! Let it be Rs.100 Crs</p>									
Manu	<p>Fine, assume cost for the sales.</p>									
Vinu	<p>Let it be Rs.90 Crs</p>									
Manu	<p>Fine! It means, you are going to make a profit of Rs.10 Crs</p>									
Vinu	<p>Yes!</p> <table border="1" data-bbox="261 954 512 1070"> <tr> <td>Sales</td> <td>100 Crs</td> </tr> <tr> <td>Cost</td> <td>90 Crs</td> </tr> <tr> <td>Profit</td> <td>10 Crs</td> </tr> </table>		Sales	100 Crs	Cost	90 Crs	Profit	10 Crs		
Sales	100 Crs									
Cost	90 Crs									
Profit	10 Crs									
Manu	<p>Now it's time to split your costs!</p>									
Vinu	<p>Like?</p>									
Manu	<p>Based on nature!</p>									
Vinu	<p>As fixed and variable?</p>									
Manu	<p>Yes!</p>									
Vinu	<p>Ok! Out of Rs.90 Crs, let Rs.80 Crs be variable cost.</p>									
Manu	<p>So your fixed cost is Rs.10 Crs only!</p>									
Vinu	<p>Yes.</p>									
Manu	<p>Then please split your cost and work out your profits</p>									
Vinu	<table border="1" data-bbox="261 1458 596 1608"> <tr> <td>Sales</td> <td>100 Crs</td> </tr> <tr> <td>Variable Cost</td> <td>80 Crs</td> </tr> <tr> <td>Fixed Cost</td> <td>10 Crs</td> </tr> <tr> <td>Profit</td> <td>10 Crs</td> </tr> </table>		Sales	100 Crs	Variable Cost	80 Crs	Fixed Cost	10 Crs	Profit	10 Crs
Sales	100 Crs									
Variable Cost	80 Crs									
Fixed Cost	10 Crs									
Profit	10 Crs									
Manu	<p>So when your sales is Rs.100 Crs, your profit is Rs.10 Crs.</p> <p>This is because, your cost is Rs.90 Crs.</p> <p>Now tell me, what will be your profit, when your sales doubles?</p>									
Vinu	<p>Hmmm?</p> <p>When Sales is Rs.100 Crs, profit is Rs.10 Crs.</p> <p>So obviously, when sales touches Rs.200 Crs, profit should be Rs.20 Crs.</p>									
Manu	<p>No! It need not be!</p>									
Vinu	<p>Why?</p>									
Manu	<p>Compute in a table format and tell me!</p>									
Vinu	<table border="1" data-bbox="261 1977 743 2022"> <tr> <td>Particulars</td> <td>Existing</td> <td>Proposed</td> </tr> </table>		Particulars	Existing	Proposed					
Particulars	Existing	Proposed								

	Sales	100 Crs	200 Crs
	Variable Cost	80 Crs	160 Crs
	Fixed Cost	10 Crs	20 Crs
	Profit	10 Crs	20 Crs

Manu No! You are wrong!

Vinu Why?

Manu Your fixed cost got to be fixed. But you considered that also as a variable cost!

Vinu Ya! Let me correct it!

Particulars	Existing	Proposed
Sales	100 Crs	200 Crs
Variable Cost	80 Crs	160 Crs
FIXED COST	10 Crs	10 Crs
Profit	10 Crs	30 Crs

Manu Now look at your profit!

Vinu Hey!!!! It is Rs.30 Crs. How did this happened?

Manu It happened because of your fixed cost.

When your sales increased, variable cost also increased in the same proportion.

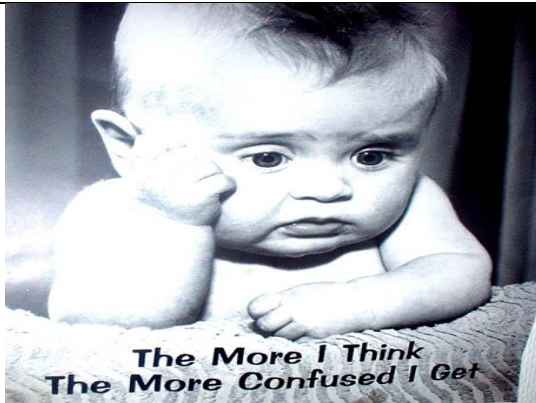
i.e., your existing level of variable cost is 80% (80/100) and it continued to be at 80% (160/200) when your sales increased to Rs.200 Crs.

But your fixed cost remained fixed at Rs.10 Crs.

Vinu Yes! Very true.

Manu That's why it is said, Variable cost will become fixed and Fixed cost will become variable.

Vinu



??????

Manu Variable cost per unit will be constant but Fixed cost per unit will change depending upon your sales.

Vinu Yes! Yes!

Manu Now come back!

I said your profit will go up when you have more fixed costs right?

Vinu Yes!



Manu Change your cost assumptions!


Increase your Fixed Cost and see what the effect on your profit is, without changing the total cost.

What are your existing costs?

Vinu

Variable Cost	80 Crs
---------------	--------

	Fixed Cost	10 Crs			
Manu	Now make alteration to this composition. Increase your fixed cost without changing the total cost.				
Vinu	Ok! I'll assume Variable Cost as Rs.50 Crs Fixed Cost as Rs.40 Crs So my total cost will continue at Rs.90 Crs				
Manu	Work out your existing and proposed profits				
Vinu	Particulars	Existing	Proposed		
	Sales	100 Crs	200 Crs		
	Variable Cost	50 Crs	100 Crs		
	FIXED COST	40 Crs	40 Crs		
	Profit	10 Crs	60 Crs		
Manu	Look at your profit!				
Vinu			<p>It jumped from 10 Crs. to 60 Crs. When sales increased from 100 Crs to 200 Crs.</p>		
Manu	Also note your profit jumped from 30 Crs to 60 Crs at your 200 Crs sales level.				
Vinu	Yes! When my fixed cost was 10 Crs, I could achieve only Rs.30 Crs profit on sales of Rs.200 Crs. But it jumped to 60 Crs, when my fixed cost had become 40 Crs.				
Manu	True! Can you tabulate this?				
Vinu	Particulars	Low Fixed Cost		High Fixed Cost	
	Sales	100	200	100	200
	Variable cost	80	160	50	100
	Fixed Cost	10	10	40	40
	Profits	10	30	10	60
Manu	The above table shows, When you had low fixed cost, the increase in profits for increase in sales is low. But, when you added higher fixed cost, proportionate increase in profit when compared with increase in sales is very high.				
Vinu	True! Do you mean to say, that companies should have more fixed cost to make more profit?				
Manu					
Vinu	Then?				
Manu	Your total cost should be as low as possible and if you have major portion as fixed cost, then it will give you more profits if the company can achieve more sales.				

Vinu	How that works?															
Manu	If you have more fixed cost, then it means you have less variable cost.															
Vinu	Yes!															
Manu	If you subtract variable cost from sales, you will get contribution.															
Vinu	Yes!															
Manu	Understand, contribution is called as contribution, because it only contributes to pay your fixed cost, tax and profits to the owners.															
																
Vinu	True! True!															
Manu	So, the message is if you have more contribution and if you have more fixed cost, you tend to make more profits.															
Vinu	Only this point buzzes me. When you have more contribution and more fixed cost, how can your profit can be more?															
Manu	It is because, when your contribution increases with increase in sales, fixed cost would stand fixed. It is not going to increase. So you have more contribution and less fixed cost. Hence, obviously more profits. That's why your profit will have disproportionate increase when compared with increase in sales.															
Vinu	Ok! Ok!															
Manu	But you have to be very careful with Fixed Cost. The cost structure of the company should be dependent on business environment.															
Vinu	Why's that?															
Manu	If the business environment is very conducive and if there is scope for achieving growth in sales, then business entities can take more fixed cost. Because, when you take more fixed cost, it means you have less variable cost. With increase in sales, VC will also move along with sales and so you will have more contribution.															
Vinu	Yes! More contribution for every additional sales but fixed cost will be fixed. So we can have more profits!															
Manu	Exactly! But, it will work absolutely in opposite direction when your sales comes down. Because, when sales comes down, you contribution will also come down but not your fixed cost.															
Vinu	Correct! Even a marginal fall in sales can affect us, I think!															
Manu	Yes! Assume 30% fall in your sales, when your fixed cost is Rs.40 Crs and sales is Rs.100 Crs.															
Vinu	Ok! Let me tabulate															
	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Existing</th> <th>30% drop in sales</th> </tr> </thead> <tbody> <tr> <td>Sales</td> <td>100</td> <td>70</td> </tr> <tr> <td>Variable cost</td> <td>50</td> <td>35</td> </tr> <tr> <td>Fixed Cost</td> <td>40</td> <td>40</td> </tr> <tr> <td>Profits</td> <td>10</td> <td>-5</td> </tr> </tbody> </table>	Particulars	Existing	30% drop in sales	Sales	100	70	Variable cost	50	35	Fixed Cost	40	40	Profits	10	-5
Particulars	Existing	30% drop in sales														
Sales	100	70														
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Manu	<p>Look at that!</p> <p>For 30% decrease in Sales, you are going to report Loss of Rs.5 Crs</p> <p>30% decrease in sales is causing 150% fall in your profits. i.e., resulting in loss.</p> <p>It is also because of Fixed Cost!</p>																	
Vinu	So Fixed Cost is double sided weapon!																	
Manu	Yes! It can work for you in good times and work against you in bad times!																	
Vinu	But where is the concept of leverage here?																	
Manu	<p>Fine. Let me introduce you the leverage concepts.</p> <p>For that we have to split fixed costs further!</p>																	
Vinu	Like?																	
Manu	<p>Fixed Costs into</p> <p>a) Operating Fixed Cost</p> <p>b) Non-Operating Fixed Cost</p>																	
Vinu	Should I break our cost numbers?																	
Manu	Do it please for Rs.100 Crs Sales.																	
Vinu	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Sales</td> <td>100</td> </tr> <tr> <td>Variable cost</td> <td>50</td> </tr> <tr> <td>Fixed Cost</td> <td>40</td> </tr> <tr> <td>Profits</td> <td>10</td> </tr> </tbody> </table>	Particulars	Amount	Sales	100	Variable cost	50	Fixed Cost	40	Profits	10	<p>This one?</p>						
Particulars	Amount																	
Sales	100																	
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Fixed Cost	40																	
Profits	10																	
Manu	Yes!																	
Vinu	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Sales</td> <td>100</td> </tr> <tr> <td>Variable cost</td> <td>50</td> </tr> <tr> <td>Contribution</td> <td>50</td> </tr> <tr> <td>Operating Fixed Cost</td> <td>20</td> </tr> <tr> <td>EBIT</td> <td>30</td> </tr> <tr> <td>Non-Operating Fixed Cost</td> <td>20</td> </tr> <tr> <td>Profits</td> <td>10</td> </tr> </tbody> </table>	Particulars	Amount	Sales	100	Variable cost	50	Contribution	50	Operating Fixed Cost	20	EBIT	30	Non-Operating Fixed Cost	20	Profits	10	
Particulars	Amount																	
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Variable cost	50																	
Contribution	50																	
Operating Fixed Cost	20																	
EBIT	30																	
Non-Operating Fixed Cost	20																	
Profits	10																	
Manu	<p>Perfect!</p> <p>You have assumed Operating Fixed Cost as Rs.20 Crs and Non-Operating Fixed Costs as Rs.20 Crs</p>																	
Vinu	Yes!																	
Manu	Now look at your Contribution. It is 50% of Sales.																	
Vinu	Yes!																	
Manu	<p>Understand, contribution is something, which you can get at the same level comparable with other players in Industry. Because, it is decided by Sales and Variable Cost which may be common for everyone in the industry.</p>																	
Vinu	Like?																	
Manu	Like Selling Price, Raw Material Cost and other Variable Costs.																	
Vinu	Ok!																	
Manu	<p>Your ability to make profit is decided by your Fixed Costs after Contribution.</p> <p>In this case, you have Contribution of Rs.50 Crs whereas your EBIT is Rs.30 Crs.</p> <p>Why did this happened?</p>																	
Vinu	Because of Operating Fixed Cost of Rs.20 Crs.																	

Manu	Yes! This tells us about Operating Leverage. Your Operating Fixed Cost determines Operating Leverage.		
Vinu	Oh!		
Manu	Your Contribution was Rs.50 Crs whereas EBIT was Rs.30 Crs. It means, your Contribution was 1.67 Times of EBIT.		
Vinu	Yes. Contribution / EBIT = 50/30 = 1.67 Times.		
Manu	Exactly and this is the computation for Operating Leverage!		
Vinu	But what does that communicate?		
Manu	It means, when your sales increases by 1 Time, your EBIT will increase by 1.67 Times.		
Vinu	That's great! I want to check that!		
Manu	Try when your sales increases to 200 Crs		
Vinu	Ok!		
	Particulars	Existing	Proposed
	Sales	100	200
	Variable cost	50	100
	Contribution	50	100
	Operating Fixed Cost	20	20
	EBIT	30	80
Manu	Look at your EBIT growth.		
Vinu	Yes! EBIT has grown by 50 (80 – 30). 50/30 = 1.67 Times. EBIT has grown by 1.67 Times. Exactly as provided by Operating Leverage.		
Manu	Yes Vinu! At higher level, CFOs will be interested in knowing what will be the impact on EBIT if their sales increases / decreases and they will be making use of Operating Leverage to know that!		
Vinu	Acha!!		
Manu	So, if your Operating Leverage is high, it would mean you have higher fixed cost. So if your sales increases, your EBIT will grow by Operating Leverage Multiples.		
Vinu	True!		
Manu	But what is more important for the investors is EBT and not EBIT.		
Vinu	Yes! Now I could follow! EBT is decided by Non-Operating Fixed Cost like Interest Charges. Is that right?		
Manu	Yes! Your EBIT will get reduced by Non-Operating Fixed Cost and will give you EBT. The relationship between EBIT and EBT is called as Financial Leverage.		
Vinu	Let me put up the numbers.		
Manu	Please do it.		
Vinu	Particulars	Amount	
	Sales	100	
	Variable cost	50	

	Contribution	50	
	Operating Fixed Cost	20	
	EBIT	30	
	Non-Operating Fixed Cost	20	
	Earnings before Tax (EBT)	10	
Manu	Above table says, your EBIT was 3 Times of EBT.		
Vinu	True. EBIT/EBT = 30/10 = 3 Times		
Manu	This is called Financial Leverage.		
Vinu	What's the impact?		
Manu	It says, 2/3 rd of your EBIT was eaten away by Non-Operating Fixed Costs. More importantly, it says, if your EBIT increases by certain proportion, then your EBT will increase by 3 Times of that proportion.		
Vinu	Shall I check that with our table?		
Manu	Please! Check what will be the effect on your EBT, when your EBIT increases due to increase in sales to Rs.200 Crs.		
Vinu	Particulars	Existing	Proposed
	Sales	100	200
	Variable cost	50	100
	Contribution	50	100
	Operating Fixed Cost	20	20
	EBIT	30	80
	Non-Operating Fixed Cost	20	20
	EBT	10	60
Manu	Look at your growth in EBIT. It had grown from 30 to 80. Growth by 50. If you express it in times – it is $50/30 = 1.67$ Times.		
Vinu	Yes! We have discussed this already! Operating leverage will tell us the growth in EBIT in times.		
Manu	Yes. Financial Leverage actually says, EBT will grow by 3 Times of Growth in EBIT Times. i.e., 3×1.67 Times = 5 Times.		
Vinu	Oh!!		
Manu	What was your existing EBT?		
Vinu	Rs.10 Crs		
Manu	As per Financial Leverage, your EBT should grow by 5 Times. i.e., $10 \times 5 = 50$		
Vinu	Yesss!!! It had grown to Rs.60 Crs. i.e., $10 + 50 = 60$		
Manu	That's the job of Financial Leverage. It will tell you, how your EBT will react, when your sales changes. When your sales changes, automatically, you will know what will be the effect on EBIT through Operating Leverage. Once you know the effect on EBIT, you can find the effect on EBT through Financial Leverage.		
Vinu	Can we know the effect on EBT for change in Sales directly?		
Manu	Yes!		

	We can find the direct effect of change in sales on profit through Combined Leverage.
Vinu	How that is derived?
Manu	Contribution / EBT gives you combined leverage. For your existing sales, contribution is 50 and EBT is 10.
Vinu	It means, Contribution / EBT = 50 / 10 = 5 Times is the Combined Leverage.
Manu	Yes! It says, when sales increases, EBT will increase by Combined Leverage Times.
Vinu	Let me check! Existing Sales – 100 Crs Proposed Sales – 200 Crs Sales increased 1 Time. EBT should increase by 5 Times of 1 Time. ie., EBT should increase by 5 Times. (5 x 1) Existing EBT is Rs.10 Crs Increase by 5 Times = 10 x 5 = 50 Crs Yes!!!! Proposed EBT in our table and this computation matches. It is Rs.60 Crs (10+50)
Manu	It would match. CFOs use this tool to know what will be direct impact in EBT when your sales changes. In our example, existing sales and EBIT was Rs.100 Crs and Rs.10 Crs. CFOs will not go further detailed computation, if they have Combined Leverage on hand. If they know Combined Leverage is 5 Times, then automatically they can come to a conclusion that, if there sales increases to 200 Crs, then their EBT will become Rs.60 Crs.
Vinu	Wonderful!
Manu	This might look like simple computation. Yes! It is simple. But it saves lots of times and provide instant tools for people at the top management level to make quick decisions.
Vinu	True!
Manu	It helps management to understand how their profits will react to change in sales. If operating leverage is high, it means they have high operating fixed cost. So in good times, they tend to make more EBIT. In bad times, they should take efforts to reduce the operating fixed costs as variable cost so they don't suffer fall in EBIT.
Vinu	Correct!
Manu	Similarly, if financial leverage is high, they can make more profits when their sales increases. But they have to be careful, when their sales reduces. In such period, higher financial leverage is a strong warning indicator for the company to reduce non-operating fixed costs.
Vinu	Yes Manu!

Manu	<p>To conclude,</p> <p>If you have higher leverages, you tend to make more profits in good times and suffer badly in bad times.</p> <p>So your costing structure should be flexible enough to convert the costs into fixed and variable depending upon changing circumstances.</p>
Vinu	<p>Yes Manu!</p> <p>Now I could understand the importance of Leverage.</p> <p>Thank you! But the session got a bit lengthier!</p>
Manu	<p>If you have to understand something, you should spend some time. But I am sure, it is worth spending.</p>
Vinu	<p>Yes Manu!</p> <p>Thank you very much.</p>

Author:

CA N Raja

Chartered Accountant

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