





Coramba: -Petermination of Break even point: The following are the key times used in) Selling price = fined cost + Variable cost + 2) Selling price - variable lost: fined cost + profit. " = Contidution 3) Contribution per wait = selling price per unit - Variable cost per Determination of Break even point in units: I fixed cost = BER with here contribution - S.P. M- wargin per unit = S.P. Mmargis per unit Determination of BEP in Values: fined cost. BEE (values) where contribution contribution. contribution margin per Conteibution margin latio unit to selling pine per unit,

DA Jaum has fined cost super 10,000/- , relling O A price per unit is 5/-, variable cost per pas unit is 31value (i) petermine BEP (value) and sales Value (ii) Calculate the margin of safety considering thathe occutival production as 8000 whits. Va BE tor sof- (i) BER (units) = fixed cost 801: Cent many per unel sip-vc 25000 -BEP(Values) = FC Cost margin ratio nt margin ratio = S.P-VC - 57 - 45 = 10,000 = 25,000 (ii) Trangin permits No of writs - BER (writs) 08000-5000 > 8000

DA hitech rail can carry a max of 36,000 passenger per annum at a fair of \$ = 400 Variable cost per passenger is 150/-, while the fined cost is 25 lakher- per year, find BEP (interms of no of passengers and also in terms of fair collection) 801: No of passengers = 36,000 fined cost = 25,000,000 fail = = 400 Variable Cost = £ 1501-BEP= fixed Cost Fair - V-C 25,00,000 = 25,00,000 = 25,000 35 BEP=101000 finternsof fintern of money BEP = F-C Cont margineatio Cont margin ratio = 400-150, 250 BEP = 25,00000 × 8 = 40,00,000

& Scikanth Enterprises deals with supply of hardware parts of computer. This following cost data is available for two successive periods.

sof:

Jear-1	1,20,000
50,000	
101000	20,000
80,000	60,000
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Determine i)a break even point (ii) margin of safety.

Sel: 60 ntirbution = sales - Variable Cost

year I = 50,000 - 20,000 = 20,000

year I = 1,20,000 - 60,000 = 60,000

	-	
Particular	year I	years
sales	(0,000	1,20,000
variable	801000	00,000
Contri but	20,000	60,000
fined	10,000	20,000
Net people	10,000	40,000

As per unit data is not available overse the formuld ply ratio to find out BEP.

pratio = Contribution x 100 year I = 20,000 x 100 = 200 = 40 year II 60,600 × 100 = 600 = 50 BEP = fined cost year I (BEP) = 125000 year [(BEP) = 20,000 (ii) margin s net Projet margin (y-I) = 10,000 = 250. margin (y-II) = 40,000 = 800

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@16/8/19 of OA firm has fined cost a 50,000 , selling price per unit, \$ 50 and Variable Lost E p.p.u is \$ 25. Present level of production is 3500 units volume i) Determine BEP (volues 4 sales volue) (ii) Calculate margin of safety (1ii) what is change in BEP and margin of safety if the increases sou to bok Sol: BEP (units) = FC (out margin per unit Cont Margin per unit = 6. P. P - V. C. P. U = 50-25 BEP(units) = 50,000 = 2000 BEP(value) = FC Cont margin latio per unit Cont marginatio PU = ELSP SP-VC SP = to = 2 > 50-25 = 1 BEP(values) > 50,000 = 25000 1100,000

margin of safety 2 no of units - BEP (units 23500-2000 = 1500 when &c changes from 50,000 to 60,000 B6P (units) = 60,000 258 2 2400 BEP (values) = 60,000 21,20,000 margin of safety = 3500-2000 D 11,00 The above calculations show that the frim has to produce more units (2400 In the event of increase of fixed con by 10,000 this reduces margin of so by 400 units (1500-1100)

O & fin has two products Byc. The particulars of the price per uniet, v. 101 per unit, percentage of the share in total sales volume one given in table products SP VC 1. of share 16 40 20 60-1. 50 The total fined cost during the year amount sugers 1,00,000. The total volume of sales is \$ 8,00,000. The company mante to deap product B unit. Instead it mante add product P. If D is added the new fined cost is likely to be \$1,25,000 and the sales volume is likely increased to \$ 9,00,000. The new scendiro will be given below 1. of 8 hare Particulars SP ve 20% 50 20 80% 24 60

lot: (solution for BEJC) Contribution : selling price-variable lost selling price x soo 1. of CR tor B = 40-16 x 1000 0-4 = 40-16 × 9 = 24 ce for c = 50-20 × 0.6 = 350 × 6 = 350 × 6 90-9 90-36 Total of the contribution of B Ef C = 0.2U+0-36 20-6 Total Contributionsales & Conti - Sales x Contribution = 8,00,00/2 6 = 480,000

set profit a contribution of ined tout - pise 100-1100,000 01 NEL > 3,80,000] Now fee cy D contratio for c= 50-20 x 0.7 = 20 × 2 × 0.1 contentio for D = 60-24 x 3 36 36 x 0.01 0.438 80 36 x 0.01 0.438 80 Total contribution : Sales x cont ratio = 9,00,000× 0-11380 8 · 5,40,000 10 net prof = 5,40,000 - 1,26,000