

Product Launch course

Year 2



This week:

- Calculations
- Test exam 1: Questions 5,7,m.c.



Pie costs \$ 30,00 I sell 10 pieces

- 1. How much must I ask so I do not lose money?(= break even)
- 2. If I sell each part for \$2,00. How many pieces should I sell not to lose money? (= break even)



Pie costs \$ 20,00 I want to earn \$ 5,00 with the sales of the whole pie I cut 25 pieces

- 3. How much should I charge per piece not to lose money? (= break even)
- 4. How much is my total sales? (= break even sales)

Pie costs \$ 30,00 I sell 10 pieces

1. How much must I ask so I do not lose money?(= break even)

\$ 30 / 10 = \$ 3,00

2. If I sell each part for \$ \$2. how many pieces should I sell not to lose money? (= break even?

\$30,00 / \$2,00 = 15 pieces



Pie costs \$ 20,00 I want to earn \$ 5,00 with the sales of the whole pie I cut 25 pieces

3. How much should I charge per piece not to lose money? (= break even)

Costs: \$20,00 + \$5,00 = \$25,00

Cost per piece: \$25,00 / 25 = \$1,00

4. How much is my total sales? (= break even sales)

25 pieces X \$ 1,00 = \$25,00



Pie costs \$ 20 I want to earn \$ 5 with the sales of the whole pie The delivery cost for each piece is \$ 1,50 I cut 20 pieces



- 5. How much should I charge per piece? (= break even)
- 6. How much is my total sales (= break even sales with profit)



Pie costs \$ 20 I want to earn \$ 5 with the sales of the whole pie I deliver each piece for \$ 1,50 I cut 20 pieces



5. How much should I charge per piece? (= break even)

Constant costs = \$20,00 + \$5,00 = \$25,00

Per piece = \$25,00 / 20 = \$1,25

Variable costs = \$ 1,50 per piece

Total cost per piece = \$1,25 (const.) + \$1,50 (delivery) = \$2,75

6. How much is my total sales (= break even sales with profit)

20 pieces X \$ 2,75 per piece = \$ 55,00



I would like to invest in a new pie.

I buy it for \$ 12,00

My gross margin is 50% of the sales revenue

The variable costs are 25% of the sales
revenue.

(gross margin = revenue – cost to obtain the product)

7. What is my break-even sales revenue?



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7. What is my break-even sales revenue?



Gross margin = 50% \square cost to Obtain product = 100 - 50% = 50%



Percentage and break-even.

Break even turnover/sales/sales revenue is money

Break even volume is in **amount** (numbers, liters, kilograms, etc.)

- Break even sales = amount * selling price
- B.E. volume = B.E. sales / selling price
- B.E. amount = constant costs / (selling price- variable costs per product)

To be break even:

A. My sales total	\$ 10.000	B. Constant cost are	\$ 250
I ask per product	\$ 20	Selling price	\$ 15
		Variable cost pp	\$ 10

What is my break even volume?

Break even Sales? What is contribution margin?

To be break even:

A. My sales total \$ 10.000 I ask per product \$ 20

What is my break even volume? **\$ 10.000 / \$ 20 = 500**

B. Constant cost are \$ 250 \$ 15 Selling price Variable cost pp \$ 10

Break even Sales?

\$ 250 / (\$ 15 - \$10) = 50

 $50 \times 15 = 750

What is contribution margin?

\$ 15 - \$ 10 = \$ 5

Breakeven sales volume (BEV) = Total Constant costs

Contribution Margin (CM)

Contribution Margin (CM)=

Sales revenue – variable costs

(Constant cost + profit) **B.E.** volume with profit =

(selling price-variable cost per product)



To be break even:

A. Totall costs \$ 20.000

I ask per product \$ 40

Selling price \$ 30

Variable cost pp \$ 20

Break even Sales?

To be break even:

What is my break even volume?

A. Total costs \$ 37.500

I sell product at \$ 17,50

Selling price \$ 1,50

Variable cost pp \$ 0,25

What is my break even volume? Break even Sales?

To be break even:

A. Totall costs \$ 20.000 l ask per product \$ 40

What is my break even volume? \$ 20.000 / \$ 40 = 500

To be break even:

A. Total costs \$ 37.500 I sell product at \$ 17,50

What is my break even volume? \$ 37.500 / \$ 17.50 = 2.143

B. Constant cost are \$500Selling price \$30Variable cost pp \$20

Break even Sales? \$ 500 / (\$30 - \$20) = 50 50 X \$ 30 = \$ 1.500

B. Constant cost are \$2 mlnSelling price \$1,50Variable cost pp \$0,25

\$ 2.000.000 / (\$1,50 - \$ 0,25) = 1.600.000 X \$ 1,50 = \$ 2,4 mln

Break even Sales?

Robert Inc. would like to invest in a new accessory product. I plan my constant costs for US\$ 12.000 for the next year, the gross margin for 50% of the sales revenue and the other variable costs 25% of the sales revenue.

- 1. What is the break-even sales revenue for Robert Inc. for the next year?
- 2. What is the break-even volume for Robert Inc., if I know that my average selling price will be \$ 5 pounds per product?
- 3. What is the break-even volume for Robert Inc. if I would like to make a profit of \$ 50.000?

Robert Inc. would like to invest in a new accessory product. I plan my constant costs for US\$ 12.000 for the next year, the gross margin for 50% of the sales revenue and the other variable costs 25% of the sales revenue.

What is the break-even sales revenue for Robert Inc. for the next year?

```
B.E. Sales = Const. costs / selling price- variable costs p. product = 12.000 / (100% - (50%+25%)) X 100% = 12.000 / 25% X 100% = $48.000
```

What is the break-even volume for Robert Inc., if I know that my average selling price will be \$ 5 pounds per product?

```
B.E. Volume = B.E. sales / selling price 48.000 / 5 = 9.600 products
```

3. What is the break-even volume for Robert Inc. if I would like to make a profit of \$ 50.000?

```
B.E. volume with profit = Const. costs + profit / (selling price - v.c.p.p) $ 12.000 + $ 50.000 / (25%) X 100% Total Sales $ 248.000 / $ 5 = 49.600 products
```

XYZ would like to invest in a new awesome product line. With 3 billion customers around the world ready to use their product they want to launch in January 2018. With a selling price of only \$ 0,50 the product is accessible to everyone.

They estimate the total costs at \$ 4.500.000, including machinery, housing, etc.

The variable costs are estimated at 10% of the total costs. In the variable costs packaging is a major cost and electricity hardly.

The company wants to be break even in the first year and earn a profit of \$ 2 mln in the second year.

- 1. Calculate the contribution margin
- 2. What is the break-even sales revenue for XYZ in the first year? How many product do they have to sell?
- 3. How many products do they have to sell in the second year?

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1. Calculate the contribution margin

```
Total costs – var. costs = 100 - 10 = 90\%
Contribution margin = 90\% of $0,50 = $0,45
```

2. What is the break-even sales revenue for XYZ in the first year? How many product do they have to sell?

```
Break even □ cost = sales

First year:

Total costs 4.500.000 = break even sales revenue

Number of products to sell $ 4.500.000 / $ 0,50 = 9.000.000 products
```

Or

Const cost/contr. Margin = (90% of 4.500.000) / \$ 0,45 = 9.000.000 productsBreak even sales: $9.000.000 \times \$ 0,50 = \$ 4.500.000$

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They estimate the total costs at \$ 4.500.000, including machinery, housing, etc.

The variable costs are estimated at 10% of the total costs. In the variable costs packaging is a major cost and electricity hardly.

The company wants to be break even in the first year and earn a profit of \$ 2 mln in the second year.

3. How many products do they have to sell in the second year?

Second year:

Total constant costs:

constant costs + profit = (\$ 4.500.000 X 90%) + \$ 2.000.000 = \$ 6.050.000 Contribution margin = \$ 0,45

Total sales:

Total constant costs / contribution margin = \$ 6.050.000 / \$ 0,45 = 13.444,445

1. The selling price for Uggs boots is € 249,-. The constant costs are € 99,- per pair while the variable costs are € 16,- .

The total constant costs for the trader are € 1.072.000,-

- a. Calculate breakeven volume.
- b. Calculate breakeven sales.
- 2. A Supplier has a selling price of € 45,- per product. His constant costs are 900.000,-. His variable costs are € 25,- per product. Calculate breakeven sales.

1. a. contribution margin:

Cost. costs 1.072.000,- / (selling price 249,- minus 99,- minus var co. 16,-) = 8.000 pieces b. 8.000 stuks * vp 249,- = break even sales 1.992.000,-

2. 900.000,- / (45,- min 25,-) = 900.000,- / 20,- = 45.000 pieces * selling price 45,- = 2.025.000,- break even sales



Questions 5, 7 and MC test exam

5a. What is the break-even sales revenue for FashionEsta.com for the next year?

5b. What is the break-even volume for FashionEsta.com, if they know that their average selling price will be 50 pounds per product?

5c. What is the break-even volume for FashionEsta.com if they would like to make a profit of 40.000 Pounds?

Constant costs for 60.000 pounds for the next year The gross margin for 60% of the sales revenue. The other variable costs 30% of the sales revenue.

Questions 5, 7 and MC test exam

5a. What is the break-even sales revenue for FashionEsta.com for the next year? (5 points)

ANSWER:

```
COST TO OBTAIN PRODUCT = 100% - 60% = 40%

B.E. sales = C/ selling price- variable costs p. product = 60.000/ 100%-(40%+30%) X 100% = 60.000/ 30% X100% = 200.000 Pounds
```

5b. What is the break-even volume for FashionEsta.com, if they know that their average selling price will be 50 pounds per product? (5 points)

B.E. volume = B.E. sales / selling price= 200.000/ 50 = 4.000 produts

5c. What is the break-even volume for FashionEsta.com if they would like to make a profit of 40.000 Pounds? (5 points)

```
B.E. volume met profit = C+ profit/ selling price-v.c.p.p = (60.000+ 40.000)/ 30%X 100% = 333.333 pounds/50 pounds= 6.667 products
```



QUESTION 7 (20 points)

FashionEsta.com is considering tablets (I-Pad for example) for inclusion in their media mix. Which two adopter categories would be most likely to start using this medium?

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Adopter category 1:

Innovators

- the first individuals to adopt an innovation
- willing to take risks
- youngest in age
- highest social class

Adopter category 2:

Early adopters:

- high degree of opinion leadership
- typically younger in age
- relatively high social status
- financial resources



Question 1:
is the act of occupying a distinctive place in the mind of the target market. (10 points for the
correct answer)
 targeting positioning segmenting branding
Question 2: The stage is marked by a rapid climb in sales.
 introduction growth maturity decline
Question 3:
During the stage sales slow down creating over-capacity in the industry, which leads to intensified competition.
□ introduction □ growth
□ maturity
□ decline



Question 4: During the withdraw from the	stage sales and profits decline and some firms e market.
introductiongrowthmaturitydecline	
Question 5: A company may contracting in the	follow the strategies of deletion, harvesting, or stage.
□ introduction□ growth□ maturity□ decline	



Next week

- Abell
- Marketing Communication
- Wrap up

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