



True

Break Even Analysis!

When a business makes a **profit**, its **TR** is more than its **TC**.

When a business makes a **loss**, its **TR** is less than its **TC**.

When a business's **TR** is the same as its **TC**, it has reached the **break-even point**.

Fixed Costs (FC) and Variable Costs (VC)

Fixed Costs (FC) - These don't change	Variable Costs (VC) - These change
e.g. Rent	sugar
FC Costs	milk
Salaries	eggs

How to Calculate the Break-Even Point

$$FC / (SPU - VCU)$$

Examples:

Harry and Henny write a book.

- The **SPU** for each book is £5.
- They buy paper and ink. Their **VCU** for each book is £2.
- They pay rent to Miss Morris to use the classroom to write the book. Their **FC** are £100.



How would Harry and Henny calculate the break-even point using the information above?

FC

$$£100 \div (£5 - £2) = 34 \text{ books}$$

$$£100 \div 3 = 33.33 \rightarrow 34$$



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$$100 \div (5 - 2)$$

$$100 \div 3 = 33.33$$

34 books

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Cost	sugar

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FC

$$\begin{aligned} & \text{£} \div (\text{£}5 - \text{£}2) & 34 \text{ books} \\ & \text{£}100 \div \text{£}3 = 33.33 & \text{books} \end{aligned}$$



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$$FC \quad £100 \div 3 = 33 \text{ books}$$

$$£100 \div (£5 - £2)$$



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~~£5 fixed~~
~~£100~~

$$£100 \div (£5 - £2)$$

fixed cost £100

$$£100 \div £3 = £33.33 \text{ books}$$

34 books