

Handout

Loan and loan costs

Note: We recommend that you read Loans and loan costs before completing the tasks in this handout.

Loan costs and term

Iman is taking out a loan of EUR 50,000 for renovating her apartment. She gets the following loan offers:

	Loan offer 1	Loan offer 2
Loan amount	EUR 50,000	EUR 50,000
Term:	15 years	15 years
Nominal interest rate, variable	5.0% p.a.	4.8% p.a.
Effective interest rate	5.7% p.a.	5.9% p.a.
Installment:	EUR 396 a month	EUR 2,400 once in six months

Task 1: Look through the two offers and tell Iman which of the two is better. Explain your recommendation!

Task 2: Iman's loan officer suggests that she extend her loan's term to 20 years. Explain what extending the loan term would mean for the monthly installments and the entire cost of the loan

Loan repayment

Boris has taken out a EUR 30,000 loan for a home solar electric system. The loan has a fixed nominal interest rate of 6.8% p.a., he is paying back the loan in 72 equal monthly installments, that is, the loan has a term of 6 years. Three years later he sells one of his two cars for EUR 15,000.

Task: Which of the following statements are true, which are false?

1	Boris can use the money he got for the car for paying back the loan in full, because halfway through the loan term, exactly half of the loan amount is still outstanding.
2	Boris can use the money he got for the car for paying back the loan in full, because halfway through the loan term, less than half of the loan amount is still outstanding.
3	The money Boris got for the car is not enough to pay back the loan in full because halfway through the loan term, exactly half of the loan amount is still outstanding, but the bank charges additional fees for early repayment.
4	The money Boris got for the car is not enough to pay back the loan in full, because halfway through the loan term, more than half of the loan amount is still outstanding.

Loan agreement and interest

When the general interest rate level was low in 2021, Marion Kern decided to buy the one-bedroom apartment next to her own apartment. She had EUR 70,000 in own funds and took out a EUR 80,000 loan to finance the purchase and the renovation of the smaller apartment.

This is a part of her loan agreement:

Kreditvertrag	Nummer.: 11035 733 355 IBAN AT80 2526 0200 4478 5519
Sehr geehrte Frau Kern MSc!	
Ihre Bank stellt Ihnen zu nachstehenden Bedingungen einen Kredit in der Höhe von	
EUR 83.000,00 (in Worten: Euro Dreiundachtzigtausend und 00/100)	
auf IBAN A T80 2526 0200 4478 5519 zur Verfügung.	
Verwendungszweck	
Kauf Eigentumswohnung	
Konditionen/Gebühren	
Der Kredit wird zu folgenden Konditionen eingeräumt:	
Gesamtkreditbetrag	EUR 79.956,74
Sollzinssatz	2,950 % p.a.
fix bis 01.06.2031	
Nach diesem Termin kommt ein Zinssatz gebunden an den 3 Monats-EURIBOR zuzgl. eines Aufschlages von 0,750 % (kaufmännisch gerundet auf volle 1/8%) zur Anwendung.	
Für den Fall, dass der errechnete Sollzinssatz negativ ist oder negativ werden sollte, wird stattdessen ein Sollzinssatz von 0,00001% für die Zinsverrechnung vereinbart. Der Kreditnehmer zahlt also zumindest 0,00001%.	
Wenn der errechnete Sollzinssatz in der weiteren Folge wieder positiv wird, dann wird dieser für die Zinsverrechnung zur Anwendung gebracht.	

Have a good look at the loan agreement and answer the following questions:

- a) What will be the nominal interest rate on June 5, 2027? Is it a variable or fixed interest loan?

Fixed or variable rate?	<input type="checkbox"/> fixed interest rate <input type="checkbox"/> variable interest rate
Interest rate on June 5, 2027	

- b) Look up the current EURIBOR that is used as the reference interest rate, on the internet.

- c) The loan agreement mentions two different loan amounts. Explain the reason for this.