

CALCULATE INTERESTS

Nowadays, due to inflation, prices are rising; as a result, the cost of a home, for example, could be prohibitive without applying for a loan, and there is no loan that is given without interest. At first glance the amount expressed by the percentage indicating the interest could seem small and the proposal appealing. But only by doing some math will we see how even the small numbers, small variations in percentage, could make a big difference in terms of money to be added at the end of the loan period.

Together we will understand how to calculate the amount to be added to the loan in order to be aware of it and, moreover, to be able to correctly evaluate different proposals.

Overview "CALCULATE INTERESTS"

Context

Everyday life, Finance

Content

Multiplications
Divisions
Addition

How to calculate interest based on the rate applied

Target group (incl. necessary prior skills and competences)

Adults and young adults;

Learners are familiar with the percentage calculation, they are people open to economic issues that affect any citizen these days.

Outcomes and results

Learners will understand the effect of the amount of the interest rate and they will be able to make conscious decisions about it.

Cognitive processes

Managing situations Analyzing situations Processing informations

Dispositions

Flexibility
Curiosity
Collaboration





	Main information				
Content	Natural numbers; decimal numbers; multiplication; division; addition.				
Target group	Adults and young adults; Learners are familiar with the percentage calculation, they are people open to economic issues that affect any citizen these days.				
Learning intention	Numeracy for personal and private purposesNumeracy to understand society				
Duration	2 UE				
Material and resources	Short listing of used material and resources				
Group size	Range from 4 to 16 learners				
Problem statement	The request for a loan always involves the additional return of a fee, called interest. At the time of the choice of the loan agreement you are made aware of what will be the percentage relative to the interest. Often these numbers are very low and we can think that as a result the relative amount of money is so. In fact, doing some simple calculations it is possible to see how even small numbers affect a lot on the total. In this way it will be possible to make a correct forecast of the total amount to be returned at the end of the agreed period and also to be able to evaluate different proposals, so as to find the most convenient.				
Working questions	What is a loan? What is an interest?What do you expect to be the amount to be returned in different contractual situations?What is the most convenient situations?				
Learning outcomes and results	Learners will understand the effect of the amount of the interest rate and they will be able to make conscious decisions about it.				
Reference to National Qualification Frame					





Working plan

Time (lessons)	Description of content/activities	Material	Methodical and didactic information
30' +	1.Discover This activity is conducted initially simply by guiding the discussion with some questions, also to evaluate students' knowledge related to the topic. As a result, the teacher will understand whether or not it is necessary to deepen the concept of loan and interest.	Slides	Discussion [if need be explicit teaching]
60'	2. Calculate the interest Learners are initially asked how they would rate the interest of some contracts. A brief discussion of the proposed ideas follows and finally, if necessary, the teacher shows, explains and makes understandable the mathematical formula to calculate exactly the value of the interest. In closing different situations are submitted to learners and they are asked to predict and calculate the final total of interest to be paid.	Real situations or contracts; calculator	Discussion Collaborative learning Hand on learning Explicit teaching
45'	3. Evaluate different proposal The teacher delivers different loan proposals and asks them to evaluate the most convenient, if any, and to discuss together what are the criteria used to make a careful assessment of the matter.	Real situations or contracts; Calculator	Collaborative learning (pairs) Hands on learning



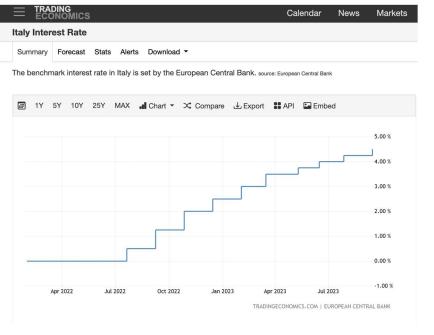


30' +	4. Discussion	
	The working groups share the assessments and considerations that emerged during phase 3 . a phase of exchange of views follows.	Discussion Feedback



Appendix

1. Discover



TRADINGECONOMICS.COM | EUROPEAN CENTRAL BANK

Related	Last	Previous	Unit	Reference
Interest Rate	4.50	4.25	percent	Sep 2023
+				

Italy Interest Rate

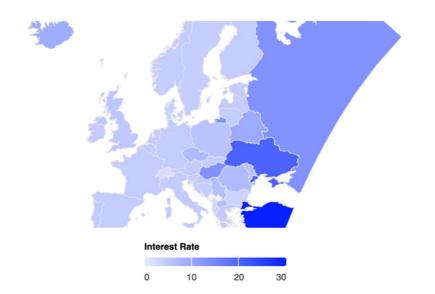
Italy is a member of the European Union which has adopted the euro. Italy's benchmark interest rate is set by the European Central Bank. The official designation for the rate is main refinancing operation.

Actual	Previous	Highest	Lowest	Dates	Unit	Frequency
4.50	4.25	4.75	0.00	1998 - 2023	percent	Daily

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Country	Last	Previous	Reference	Unit
Switzerland	1.75	1.75	Sep/23	%
Albania	3	3	Oct/23	%
Bulgaria	3.29	3.12	Aug/23	%
Denmark	3.6	3.35	Sep/23	%
Sweden	4	3.75	Sep/23	%
Norway	4.25	4	Sep/23	%
Bosnia and Herzegovina	4.36	4.45	Aug/23	%
Euro Area	4.5	4.25	Sep/23	%
United Kingdom	5.25	5.25	Sep/23	%
Poland	5.75	6	Oct/23	%
Moldova	6	6	Sep/23	%
Macedonia	6.3	6.15	Sep/23	%
Serbia	6.5	6.5	Oct/23	%
Czech Republic	7	7	Sep/23	%
Romania	7	7	Oct/23	%
Iceland	9.25	9.25	Oct/23	%
Belarus	9.5	9.5	Sep/23	%
Hungary	13	14	Sep/23	%
Russia	13	12	Sep/23	%
Ukraine	20	22	Sep/23	%
Turkey	30	25	Sep/23	%





Le migliori offerte

Mutuo di	Tasso fisso 20	anni		Tasso fisso 30	anni	
120.000		Rata	Tasso effettivo		Rata	Tasso effettivo
euro per una casa	WeBank.it	632,96	2,55%	WeBank.it	480,41	2,78%
da	Bnl	632,96	2,68%	Bper	476,02	2,68%
150.000	Bper	636,47	2,70%	B.co di Sardegna	474,15	2,70%
Aggiornamento	Intesa Sanpaolo	632,96	2,73%	Bnl	477,27	2,70%
al 17 maggio		625.00	0.750/	Contract Contract Contract	10011	2,1370
	B.co di Sardegna	635,88	2,75%	Intesa Sanpaolo	480,41	2,83%
Fonte: elaborazione su dati	Tasso variabile	The second second		Tasso variabile		
elaborazione		The second second				ni Tasso
elaborazione su dati		20 anı	ni Tasso		30 an	
elaborazione su dati	Tasso variabile	20 anı Rata	Tasso effettivo	Tasso variabile	30 an	ni Tasso effettivo
elaborazione su dati	Tasso variabile	20 anı Rata 532,82	Tasso effettivo	Tasso variabile	30 an Rata 372,34	Tasso effettivo
elaborazione su dati	Tasso variabile Bnl WeBank.it	Rata 532,82 540,18	Tasso effettivo 0,84% 0,84%	Tasso variabile Banca Carige Banco Desio	30 an Rata 372,34 372,34	Tasso effettivo 0,89% 0,93%

www.corriere.it

Mese	Tasso (TAN)	Rata mensile	Aumento rata rispetto a gennaio 2022
Gennaio 22	0,67%	€ 456	-
Giugno 22	0,90%	€ 469	€ 13
Ottobre 22	2,35%	€ 556	€ 100
Dicembre 22	3,07%	€ 602	€ 146
Gennaio 23	3,33%	€ 619	€ 163
Giugno 23 – Previsioni Oures sugli Euribor	4,75%	€ 718	€ 262

SIMULAZIONI SU MUTUO DI 126.000€ DA RESTITUIRE IN 25 ANNI

Variazione offerta di mutui a tasso fisso per i nuovi mutuatari

			Aumento rata
Mese	TAN	Rata mensile	rispetto a gennaio2022
Gennaio 2022	1,05%	€ 477	
Gennaio 2023	3,26%	€ 614	€ 137

www.skytg.it



Fonte: Facile.it



2-3: calculate and evaluate

Each country should search online for loan proposals from its own country.

For example:

 $\frac{\text{https://www.mutuionline.it/news/i-migliori-mutui-prima-casa-a-maggio-2023-}{00037638.asp\#:^:\text{text=Mutuo}\%20a\%20Tasso\%20Fisso\%20Cr\%C3\%A9dit,\%E2\%82\%AC\%20562\%2C57}\%20al\%20mese.$

