Calculating Interest

Simple Interest is calculated just one time.

$$\boxed{A = P(1 + r)^t}$$

where:

- **A** - final amount
- **P** - principal (starting balance)
- **r** - annual interest rate (as a decimal)
- **t** - time (in years)

Periodically Compounding Interest is expressed as a fucntion of the number of times (n) the interst is applied:

- **n** - number of compounds per year

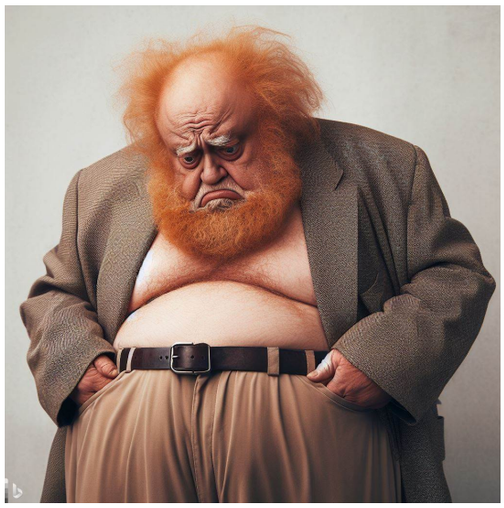
$$\boxed{A = P\left(1 + \frac{r}{n}\right)^{nt}}$$

> Bernoulli noticed that this sequence approaches a limit (the force of interest) with larger n and, thus, smaller compounding intervals. Compounding weekly `(n = 52) yields $2.692596...`, while compounding daily `(n = 365) yields $2.714567...` (approximately two cents more). The limit as n grows large is the number that came to be known as **e** Euler's Number. That is... with **Continuously Compounding Interest**, the account value will reach `$2.718281828...`
>
> $$1(1 + \frac{1}{1})^{1*1} = 2^1 = 2$$
> $$1(1 + \frac{1}{2})^{2*1} = 1.5^2 = 2.25$$
> $$1(1 + \frac{1}{4})^{4*1} = 1.25^4 = 2.4414$$
> $$1(1 + \frac{1}{365})^{365*1} = 1.002739^{365} = 2.714576$$
> $$e = \lim_{n \to \infty} \sum_{i=1}^{n} (1 + \frac{r}{n})^{nt}$$
>
> while $r = 1$ and $t = 1$ and after some simplification and clever rearranging...
>
> $$\boxed{e = \sum_{n=0}^{\infty} \frac{1}{n!}} = 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \dots$$

so the **Continuously Compounding Interest** formula is:

$$\boxed{A = Pe^{rt}}$$

The 10X lie method demonstrated by tiny orange hands





Tools Required:

1. Gold spray paint
2. Lack of morals

Instruction:

1. Repeat the steps below until Jack Smith indicts

Event	*TV Delusion*	*Cash Reality*	*Stolen*
Trumpian lie	**+$1,000,000**	$1	
	=$1,000,000	*$1*	
fraudulent loan #1		+$100,000	+$100,000
		=$100,001	=**$100,000**
2nd gold toilet	**+$1,000,000**	($1)	
	=$2,000,000	=$100,000	
fraudulent loan #2		+ $100,000	+$100,000
		=$200,000	=**$200,000**
3rd gold toilet	**+$1,000,000**	($1)	
	=$3,000,000	=$199,999	
fraudulent loan #3		+$100,000	$100,000
		=$299,999	=**$300,000**
4th gold toilet	**+$1,000,000**	($1)	
	=$4,000,000	*=$299,998*	
fraudulent loan #4		+$100,000	$100,000
	$4,000,000	**=$399,998**	=**$400,000**

```
print("I'm hella good at bizness!")
```

```
I'm hella good at bizness!
```