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Financial Literacy Unit 1 Line Master 6a

## Would You Rather?

Answers

## Scenario A

For $\$ 5000$ in a savings account for 4 years, would you rather have:

- an annual rate of $4 \%$ simple interest, or
- an annual rate of $3 \%$ compound interest?

https://www.calculatorsoup.com/calculators/financial/simple-interest-plus-principal-calculator.php


## Results

```
Total value of your investment:
$5,627.54
Total interest eamed:
$627.54
```

Your initial investment of $\$ 5,000.00$ plus your weekly investment of $\$ 0.00$ at an annualized interest rate of $3 \%$ will be worth $\$ 5,627.54$ after 4 years when compounded yearly.
https://www.getsmarteraboutmoney.ca/calculators/compound-interest-calculator/
$\qquad$
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## Would You Rather? <br> Answers (cont'd)

## Scenario B

For a loan of $\$ 5000$ for 5 years, then you repay the loan, would you rather have:

- an annual rate of $3.25 \%$ simple interest, or
- an annual rate of $2.75 \%$ compound interest?

Simple interest: \$812.50 Compound interest: \$726.37
Simple Interest Calculator $\mathbf{A}=\mathbf{P}(\mathbf{1}+\mathrm{rt})$

https://www.calculatorsoup.com/calculators/financial/simple-interest-plus-principal-calculator.php

https://www.calculator.net/loan-
calculator.html?c2loanamount=5000\&c2loanterm=5\&c2loantermmonth=0\&c2interestrate=2.75\&c2c ompound=annually\&x=60\&y=24\&type=2\#intheend
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## Would You Rather? Answers (cont'd)

## Scenario C

For a credit card debt of $\$ 5000$ with an annual interest rate of $17.5 \%$ compounded monthly, would you rather pay:

- the minimum monthly amount only, or
- the minimum amount plus $\$ 10$, or
- a fixed monthly rate of $\$ 200$ ?

Paying a fixed amount each month saves $\$ 3276.28$ https://itools-ioutils.fcac-acfc.gc.ca/CCPC-CPCC/CCPCCalc-CPCCCalc-eng.aspx

## Calculation Results

|  | Option A: What if you only make the <br> minimum payment each month? | Option B: What if you make the minimum payment <br> plus an additional amount each month? | Option C: What if you pay a <br> fixed amount each month? |
| :--- | :--- | :--- | :--- |
| Time to <br> pay off | 18 years and 5 months | 11 years | 2 years and 8 months |
| Original <br> balance | $\$ 5,000.00$ | $\$ 5,000.00$ | $\$ 5,000.00$ |
| Interest <br> paid | $\$ 4,540.91$ | $\$ 3,400.52$ | $\$ 1,264.63$ |
| Total <br> paid | $\$ 9,540.91$ | $\$ 8,400.52$ | $\$ 6,264.63$ |
| Amount <br> saved | - | $\$ 1,140.39$ | $\$ 3,276.28$ |
| Time <br> saved | - | 7 years and 5 months |  |

