Costs of Credit	Name	Class
40 points		

Annual Percentage Rate (APR) is the rate of interest for a year. Credit card companies, banks and other lenders have different rates. The following example shows how to calculate the APR and monthly payments for one year on a \$1,000 loan.

EXAMPLE: Amount of Loan:		\$1,000		
Length of Loan:		1 year (12 months)		
Annual Percentage Rate (APR):		7.5%		
Amount of Loan \$1,000	Amount of Loan	\$1,000	Total to repay	\$1,075

/ infoance of Loan	$\psi = 10000$	/ another of Loan	$\varphi = 1000$	rotar to ropay	$\varphi \pm 1010$
X APR	.075	+ finance charge	75	/ (divided by) months	12
= finance charge (same as interest)	\$ 75	= total to repay	\$1,075	= monthly payment	\$89.58

DIRECTIONS: Follow the example to calculate the interest, total payment, and monthly payments with each lender on a \$2,000 loan for 1 year. SHOW YOUR WORK. Round your answers. 5 points each problem.

<u>ABC Bank</u> 6.9% APR	<u>XYZ Bank</u> 8.5% APR
Finance Charge \$ <u>138</u>	Finance Charge \$ 170
Total to Repay \$ <u>2138</u>	Total to Repay \$ <u>2170</u>
Monthly Payment \$ <u>178.17</u>	Monthly Payment \$ <u>180.83</u>
2000 x .069 + 2000 / 12	2000 x .085 + 2000 / 12

RST Loan Company18.5% APRFinance Charge\$370	CDE Credit Company 11.5% APR Finance Charge \$ <u>230</u>		
Total to Repay \$ <u>2370</u>	Total to Repay \$ <u>2230</u>		
Monthly Payment \$ <u>197.50</u>	Monthly Payment \$ <u>185.83</u>		
2000 x .185 + 2000 / 12	2000 x .115 + 2000 / 12		

The difference between the most and least expensive lenders is \$ 232 \$2370 - \$2138 =

Created by Suzanne Skinner, Mitchell School District, South Dakota-2005

EXTENDED LEARNING:

Read each of the following problems closely and calculate the necessary answers. **SHOW YOUR WORK FOR EACH PROBLEM.**

1. You will need to finance \$500 for just 6 months at an APR of 8.5%.

 Finance Charge \$ 21.25
 500 x (.085 / 2 = .0425) + 500 / 6

 Total to Repay \$ 521.25

 Monthly Payment \$ 86.88

2. You have purchased a \$3,500 car and your mother agrees to finance it for you at just 5% APR for 3 years.

 Finance Charge
 \$ 525
 3,500 x .05 x 3 + 3,500 / 36

 Total to Repay
 \$ 4025

Monthly Payment \$ 111.81

3. You will make monthly payments of \$109 for 1 year to pay back a \$1,200 loan.

Total to Repay	\$ 1308		109 x 12
Finance Charge	\$ <u>108</u>		1308 - 1200
APR	 9	%	108 / 1200

4. You will pay \$111.75 in finance charges and a total of \$861.75 over the next 12 months.

Original Loan \$	750		861.75 - 111.75
APR	<u>14.9</u>	%	111.75 / 750
Monthly Payment \$	<u>71.88</u>		861.75 / 12