The Magic of Compound Interest on a "6%" Loan

30-year \$100,000 loan at 6%:

Summary Principal borrowed: \$100,000.00 Annual Payments: 12 Regular Payment amount: \$599.55 Total Payments: 360 (30.00 years) Final Balloon Payment: \$0.00 Annual interest rate: 6.00%

Interest-only payment: \$500.00 Periodic interest rate: 0.5000% *Total Repaid: \$215,838.00 Debt Service Constant: 7.1946%

*Total Interest Paid: \$115,838.00 *Total interest paid as a

percentage of Principal: 115.838%

So the real, compounded interest is <u>115.9%</u>.

15-year \$100,000 loan at 6%:

Summary

Annual Payments: 12 Principal borrowed: \$100,000.00

Regular Payment amount: \$843.86 Total Payments: 180 (15.00 years)

Final Balloon Payment: \$0.00 Annual interest rate: 6.00% Interest-only payment: \$500.00 Periodic interest rate: 0.5000% Debt Service Constant: 10.1263%

*Total Repaid: \$151,894.80

*Total Interest Paid: \$51,894.80 *Total interest paid as a

percentage of Principal: 51.895%

So the real, compounded interest is <u>51.9%</u>.

6-year \$100,000 loan at 6%:

Summary

Principal borrowed: \$100,000.00 **Annual Payments: 12**

Regular Payment amount: \$1,657.29 Total Payments: 72 (6.00 years) Final Balloon Payment: \$0.00 Annual interest rate: 6.00%

\$500.00 Periodic interest rate: 0.5000% Interest-only payment: *Total Repaid: \$119,324.88 Debt Service Constant: 19.8875%

percentage of Principal: 19.325%

*Total Interest Paid: \$19,324.88 *Total interest paid as a

So the real, compounded interest is <u>19.3%</u>. (source: http://www.bretwhissel.net/cgi-bin/amortize – see also next page)

Most people don't understand how great the compounded interest is on longer-term loans. It amounts to debt slavery; you must fork over much of your income to the banks who "own you." That's why in the Bible, the Lord put a six-year limit on loans: "In the seventh year you must declare a cancellation of debts. This is the nature of the cancellation: Every creditor must remit what he has loaned to another person; he must not force payment from his fellow Israelite, for it is to be recognized as 'the LORD's cancellation of debts'" (Deuteronomy 15:1-2). And in verse 12: "If your fellow Hebrew, whether male or female, is sold to you and serves you for <u>six years</u>, then <u>in the seventh year</u> you must let that servant go free."

At the end of six years the creditors were commanded to cancel debts and free their slaves: this is because slavery was often the result of debt. These rules state that servants are to be indentured for only six years and lenders make no more than sixyear loans. Why? Because money-lenders knew The Magic of Compound Interest over longer terms: it can amount to more than the principal borrowed. In year-1 of a 30-year \$100,000 loan, you've reduced the principal by only \$1,228.00 and you've given the bank \$5,966.60 in interest, or about 500% interest (see the next page). By year-6 it's cumulative \$8,602.03 on principal and cumulative \$34,565.57 on interest, or about 250% interest. This is also why lenders want you to refinance – "get the cash from your equity" – they make much more money up-front on new mortgages for another 30 years.

Bankers would much rather lend \$300,000 for 30 years to one person who buys a \$300,000 home (the bank gets 250% interest in the first 6 years) than lending \$300,000 for 6 years to four people who buy \$75,000 "fixer uppers" (the bank gets 19.3% interest in 6 years). Now you know <u>The Magic of Compound Interest</u> too! What's the solution? <u>Borrow no more than</u> what you can pay off in six years! Start at age 22 with a smaller loan on a "fixer-upper" and pay it off in 6 years, at age 28 move to a bigger home and pay it off in 6 years, at age 34 buy your dream home and pay it off in 6 years, then you can semiretire at age 40. We did something similar: \$200 down became \$200,000 – so can you!

Here's the cumulative principal and interest through year-6 of a 30-year \$100,000 loan:

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	Dest	Principal	Interest	Cum Prin	Cum Int	Prin Bal	
	Pmt	99.55	500.00		500.00		
	1			99.55		99,900.45	
	2	100.05	499.50	199.60	999.50	99,800.40	
	3	100.55	499.00	300.15	1,498.50	99,699.85	
	4	101.05	498.50	401.20	1,997.00	99,598.80	
	5	101.56	497.99	502.76	2,494.99	99,497.24	
	6	102.06	497.49	604.82	2,992.48	99,395.18	
	7	102.57	496.98	707.39	3,489.46	99,292.61	
	8	103.09	496.46	810.48	3,985.92	99,189.52	
	9	103.60	495.95	914.08	4,481.87	99,085.92	
	10	104.12	495.43	1,018.20	4,977.30	98,981.80	
		104.12	494.91			98,877.16	
	11			1,122.84	5,472.21		
	12	105.16	494.39	1,228.00	5,966.60	98,772.00	
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	13	105.69	493.86	1,333.69	6,460.46	98,666.31	
	14	106.22	493.33	1,439.91	6,953.79	98,560.09	
	15	106.75	492.80	1,546.66	7,446.59	98,453.34	
	16	107.28	492.27	1,653.94	7,938.86	98,346.06	
	17	107.82	491.73	1,761.76	8,430.59	98,238.24	
	18	108.36	491.19	1,870.12	8,921.78	98,129.88	
	19	108.90	490.65	1,979.02	9,412.43	98,020.98	
	20	109.45	490.10	2,088.47	9,902.53	97,911.53	
	21	109.99	489.56	2,198.46	10,392.09	97,801.54	
	22	110.54	489.01	2,309.00	10,881.10	97,691.00	
	23	111.10	488.45	2,420.10	11,369.55	97,579.90	
	24	111.65	487.90	2,531.75	11,857.45	97,468.25	
-					40.000		
	25	112.21	487.34	2,643.96	12,344.79	97,356.04	
	26	112.77	486.78	2,756.73	12,831.57	97,243.27	
	27	113.33	486.22	2,870.06	13,317.79	97,129.94	
	28	113.90	485.65	2,983.96	13,803.44	97,016.04	
	29	114.47	485.08	3,098.43	14,288.52	96,901.57	
	30	115.04	484.51	3,213.47	14,773.03	96,786.53	
	31	115.62	483.93	3,329.09	15,256.96	96,670.91	
	32	116.20	483.35	3,445.29	15,740.31	96,554.71	
	33	116.78	482.77	3,562.07	16,223.08	96,437.93	
	34	117.36	482.19	3,679.43	16,705.27	96,320.57	
	35	117.95	481.60	3,797.38	17,186.87	96,202.62	
	36	118.54	481.01	3,915.92	17,667.88	96,084.08	
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	37	119.13	480.42	4,035.05	18,148.30	95,964.95	
	38	119.73	479.82	4,154.78	18,628.12	95,845.22	
	39	120.32	479.23	4,275.10	19,107.35	95,724.90	
		120.93				95,603.97	
	40		478.62	4,396.03	19,585.97		
	41	121.53	478.02	4,517.56	20,063.99	95,482.44	
	42	122.14	477.41	4,639.70	20,541.40	95,360.30	
	43	122.75	476.80	4,762.45	21,018.20	95,237.55	
	44	123.36	476.19	4,885.81	21,494.39	95,114.19	
	45	123.98	475.57	5,009.79	21,969.96	94,990.21	
	46	124.60	474.95	5,134.39	22,444.91	94,865.61	
	47	125.22	474.33	5,259.61	22,919.24	94,740.39	
	48	125.85	473.70	5,385.46	23,392.94	94,614.54	
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	49	126.48	473.07	5,511.94	23,866.01	94,488.06	
	50	127.11	472.44	5,639.05	24,338.45	94,360.95	
	51	127.75	471.80	5,766.80	24,810.25	94,233.20	
	52	128.38	471.17	5,895.18	25,281.42	94,104.82	
	53	129.03	470.52	6,024.21	25,751.94	93,975.79	
	54	129.67	469.88	6,153.88	26,221.82	93,846.12	
	55	130.32	469.23	6,284.20	26,691.05	93,715.80	
	56	130.97	468.58	6,415.17	27,159.63	93,584.83	
	57	131.63	467.92	6,546.80	27,627.55	93,453.20	
	58	132.28	467.27	6,679.08	28,094.82	93,320.92	
	59	132.95	466.60	6,812.03	28,561.42	93,187.97	
	60	133.61	465.94	6,945.64	29,027.36	93,054.36	
	60	100.01	100.51	0/340.04	25,027.30	30,004.80	
	61	124.29	465.00	7 070 02	20 402 62	02 020 08	
	61	134.28	465.27	7,079.92	29,492.63	92,920.08	
	62	134.95	464.60	7,214.87	29,957.23	92,785.13	
	63	135.62	463.93	7,350.49	30,421.16	92,649.51	
	64	136.30	463.25	7,486.79	30,884.41	92,513.21	
	65	136.98	462.57	7,623.77	31,346.98	92,376.23	
	66	137.67	461.88	7,761.44	31,808.86	92,238.56	
	67	138.36	461.19	7,899.80	32,270.05	92,100.20	
	68	139.05	460.50	8,038.85	32,730.55	91,961.15	
	69	139.74	459.81	8,178.59	33,190.36	91,821.41	
	70	140.44	459.11	8,319.03	33,649.47	91,680.97	
	71	141.15	458.40	8,460.18	34,107.87	91,539.82	
	72	141.85	457.70	8,602.03	34,565.57	91,397.97	