

MONTHLY LOAN PAYMENT TABLE FOR A LOAN OF \$1,000

MrF

Annual Rate	1 Year Monthly	2 Years Monthly	3 Years Monthly	4 Years Monthly	5 Years Monthly	10 Years Monthly	15 Years Monthly	20 Years Monthly	25 Years Monthly
2%	\$84.24	\$42.54	\$28.64	\$21.70	\$17.53	\$9.20	\$6.44	\$5.06	\$4.24
3%	\$84.69	\$42.98	\$29.08	\$22.13	\$17.97	\$9.66	\$6.91	\$5.55	\$4.74
4%	\$85.15	\$43.42	\$29.52	\$22.58	\$18.42	\$10.12	\$7.40	\$6.06	\$5.28
5%	\$85.61	\$43.87	\$29.97	\$23.03	\$18.87	\$10.61	\$7.91	\$6.60	\$5.85
6%	\$86.07	\$44.32	\$30.42	\$23.49	\$19.33	\$11.10	\$8.44	\$7.16	\$6.44
7%	\$86.53	\$44.77	\$30.88	\$23.95	\$19.80	\$11.61	\$8.99	\$7.75	\$7.07
8%	\$86.99	\$45.23	\$31.34	\$24.41	\$20.28	\$12.13	\$9.56	\$8.36	\$7.72
9%	\$87.45	\$45.68	\$31.80	\$24.89	\$20.76	\$12.67	\$10.14	\$9.00	\$8.39
10%	\$87.92	\$46.14	\$32.27	\$25.36	\$21.25	\$13.22	\$10.75	\$9.65	\$9.09
12%	\$88.85	\$47.07	\$33.21	\$26.33	\$22.24	\$14.35	\$12.00	\$11.01	\$10.53
14%	\$89.79	\$48.01	\$34.18	\$27.33	\$23.27	\$15.53	\$13.32	\$12.44	\$12.04
16%	\$90.73	\$48.96	\$35.16	\$28.34	\$24.32	\$16.75	\$14.69	\$13.91	\$13.59
18%	\$91.68	\$49.92	\$36.15	\$29.37	\$25.39	\$18.02	\$16.10	\$15.43	\$15.17
20%	\$92.63	\$50.90	\$37.16	\$30.43	\$26.49	\$19.33	\$17.56	\$16.99	\$16.78
25%	\$95.04	\$53.37	\$39.76	\$33.16	\$29.35	\$22.75	\$21.36	\$20.98	\$20.88
30%	\$97.49	\$55.91	\$42.45	\$36.01	\$32.35	\$26.36	\$25.30	\$25.07	\$25.02
35%	\$99.96	\$58.52	\$45.24	\$38.97	\$35.49	\$30.12	\$29.33	\$29.20	\$29.17

* Values above have been rounded! An app or website will give slightly more accurate answers!

EXAMPLES of loan payments

Example A. You borrow \$280,000 for 25 years at 6% Annual Rate. Your *monthly* payments are \$6.44 for each thousand you borrow. So, your monthly payment on \$280,000 is 280 times as much or \$1803.20 per month. So, if your loan is paid off after 300 monthly payments (25yr * 12 month/yr = 300 months) at a cost of \$540,960 in total payments. Your \$280K loan cost you extra \$260,960 in interest.

Example B. You take a car loan of \$32,000 at 14% APR (Annual Percentage Rate) for 5 years.

$$23.27/1000 \cdot 32,000 = 744.64 \text{ monthly payment. } 744.64/\text{month} \cdot 60 \text{ month} = 44,678.40$$

$$\text{Paid total of } 44,678.40 \text{ for Principal of } 32k.$$

$$\text{Interest paid is } 44,678.40 - 32,000 = 12,768.40 \text{ Interest}$$

Interpolation of Payment. If you want interest rates such 6.5% or 7.75% a linear interpolation should be sufficiently accurate. For example, a loan at 6.5% for 25 years would be halfway between \$6.44 and \$7.07, so $(6.44 + 7.07) / 2 = \mathbf{\$6.755}$ per thousand per month for that 6.5% interest rate. See teacher for how to interpolate other fractional rate amounts if necessary.

Of course, any bank website or app you could google will give the same calculations for the loan payments!