## Mortgage Formulas

## Mortgage Principal

Mortgage principal = purchase price - down payment

## Equity

Equity = down payment + all principal payments

## Monthly Payment

Monthly payment $=\frac{\text { mortgage principal }}{1000} \times$ amount paid per thousand dollars

## Interest Portion of Monthly Payment

The interest portion of the monthly payment $=$ outstanding balance $\times \frac{\text { interest rate }}{12 \text { months }}$

## Principal Portion of Monthly Payment

The principal portion of the monthly payment $=$ monthly payment - monthly interest portion

## New Outstanding Balance

The new outstanding balance $=$ previous month's balance - principal paid

## Total Amount Paid

Total amount paid $=$ monthly instalment $\times 12$ months $\times$ mortgage term in years

## Total Interest Paid

The total interest paid = total amount paid - mortgage principal

| Amortization Table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly payment (principal and interest) per \$1000 of loan |  |  |  |  |  |
| Interest Rate | 5 years | 10 years | 15 years | 20 years | 25 years |
| 1.50\% | \$17.31 | \$8.98 | \$6.21 | \$4.82 | \$4.00 |
| 1.75\% | \$17.42 | \$9.09 | \$6.32 | \$4.94 | \$4.11 |
| 2.00\% | \$17.52 | \$9.20 | \$6.43 | \$5.05 | \$4.23 |
| 2.25\% | \$17.63 | \$9.31 | \$6.55 | \$5.17 | \$4.36 |
| 2.50\% | \$17.74 | \$9.42 | \$6.66 | \$5.29 | \$4.48 |
| 2.75\% | \$17.85 | \$9.53 | \$6.78 | \$5.41 | \$4.61 |
| 3.00\% | \$17.96 | \$9.65 | \$6.90 | \$5.54 | \$4.73 |
| 3.25\% | \$18.07 | \$9.76 | \$7.02 | \$5.66 | \$4.86 |
| 3.50\% | \$18.18 | \$9.88 | \$7.14 | \$5.79 | \$4.99 |
| 3.75\% | \$18.29 | \$9.99 | \$7.26 | \$5.91 | \$5.13 |
| 4.00\% | \$18.40 | \$10.11 | \$7.38 | \$6.04 | \$5.26 |
| 4.25\% | \$18.51 | \$10.23 | \$7.50 | \$6.17 | \$5.40 |
| 4.50\% | \$18.62 | \$10.34 | \$7.63 | \$6.30 | \$5.53 |
| 4.75\% | \$18.74 | \$10.46 | \$7.75 | \$6.44 | \$5.67 |
| 5.00\% | \$18.85 | \$10.58 | \$7.88 | \$6.57 | \$5.82 |
| 5.25\% | \$18.96 | \$10.70 | \$8.01 | \$6.71 | \$5.96 |
| 5.50\% | \$19.07 | \$10.82 | \$8.14 | \$6.84 | \$6.10 |
| 5.75\% | \$19.19 | \$10.94 | \$8.27 | \$6.98 | \$6.25 |
| 6.00\% | \$19.30 | \$11.07 | \$8.40 | \$7.12 | \$6.40 |
| 6.25\% | \$19.41 | \$11.19 | \$8.53 | \$7.26 | \$6.55 |
| 6.50\% | \$19.53 | \$11.31 | \$8.66 | \$7.41 | \$6.70 |
| 6.75\% | \$19.64 | \$11.43 | \$8.80 | \$7.55 | \$6.85 |
| 7.00\% | \$19.75 | \$11.56 | \$8.93 | \$7.70 | \$7.00 |
| 7.25\% | \$19.87 | \$11.68 | \$9.07 | \$7.84 | \$7.16 |
| 7.50\% | \$19.98 | \$11.81 | \$9.21 | \$7.99 | \$7.32 |
| 7.75\% | \$20.10 | \$11.94 | \$9.34 | \$8.13 | \$7.47 |
| 8.00\% | \$20.21 | \$12.06 | \$9.48 | \$8.28 | \$7.63 |
| 8.25\% | \$20.33 | \$12.19 | \$9.62 | \$8.43 | \$7.79 |
| 8.50\% | \$20.45 | \$12.32 | \$9.76 | \$8.59 | \$7.95 |
| 8.75\% | \$20.56 | \$12.45 | \$9.90 | \$8.74 | \$8.12 |
| 9.00\% | \$20.68 | \$12.58 | \$10.05 | \$8.89 | \$8.28 |
| 9.25\% | \$20.80 | \$12.71 | \$10.19 | \$9.05 | \$8.44 |
| 9.50\% | \$20.91 | \$12.84 | \$10.33 | \$9.20 | \$8.61 |
| 9.75\% | \$21.03 | \$12.97 | \$10.48 | \$9.36 | \$8.78 |
| 10.00\% | \$21.15 | \$13.10 | \$10.62 | \$9.52 | \$8.94 |
| 10.25\% | \$21.27 | \$13.24 | \$10.77 | \$9.68 | \$9.11 |
| 10.50\% | \$21.38 | \$13.37 | \$10.92 | \$9.84 | \$9.28 |
| 10.75\% | \$21.50 | \$13.50 | \$11.06 | \$9.99 | \$9.45 |
| 11.00\% | \$21.62 | \$13.64 | \$11.21 | \$10.16 | \$9.63 |

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[^0]:    * Interest is compounded semi-annually. The monthly mortgage payment amount may vary slightly.

