



This is “Appendix: Present Value Tables”, appendix 1 from the book [Business Accounting \(index.html\)](#) (v. 2.0).

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Chapter 18

Appendix: Present Value Tables

Figure 18.1 Present Value of \$1

| Periods | Rate per Period | | | | | | | | | | | | | |
|---------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1.00% | 1.50% | 2.00% | 2.50% | 3.00% | 4.00% | 5.00% | 6.00% | 7.00% | 8.00% | 9.00% | 10.00% | 11.00% | 12.00% |
| 1 | 0.99010 | 0.98522 | 0.98039 | 0.97561 | 0.97087 | 0.96154 | 0.95238 | 0.94340 | 0.93458 | 0.92593 | 0.91743 | 0.90909 | 0.90090 | 0.89286 |
| 2 | 0.98030 | 0.97066 | 0.96117 | 0.95181 | 0.94260 | 0.92456 | 0.90703 | 0.89000 | 0.87344 | 0.85734 | 0.84168 | 0.82645 | 0.81162 | 0.79719 |
| 3 | 0.97059 | 0.95632 | 0.94232 | 0.92860 | 0.91514 | 0.88900 | 0.86384 | 0.83962 | 0.81630 | 0.79383 | 0.77218 | 0.75131 | 0.73119 | 0.71178 |
| 4 | 0.96098 | 0.94218 | 0.92385 | 0.90595 | 0.88849 | 0.85480 | 0.82270 | 0.79209 | 0.76290 | 0.73503 | 0.70843 | 0.68301 | 0.65873 | 0.63552 |
| 5 | 0.95147 | 0.92826 | 0.90573 | 0.88385 | 0.86261 | 0.82193 | 0.78353 | 0.74726 | 0.71299 | 0.68058 | 0.64993 | 0.62092 | 0.59345 | 0.56743 |
| 6 | 0.94205 | 0.91454 | 0.88797 | 0.86230 | 0.83748 | 0.79031 | 0.74622 | 0.70496 | 0.66634 | 0.63017 | 0.59627 | 0.56447 | 0.53464 | 0.50663 |
| 7 | 0.93272 | 0.90103 | 0.87056 | 0.84127 | 0.81309 | 0.75992 | 0.71068 | 0.66506 | 0.62275 | 0.58349 | 0.54703 | 0.51316 | 0.48166 | 0.45235 |
| 8 | 0.92348 | 0.88771 | 0.85349 | 0.82075 | 0.78941 | 0.73069 | 0.67684 | 0.62741 | 0.58201 | 0.54027 | 0.50187 | 0.46651 | 0.43393 | 0.40388 |
| 9 | 0.91434 | 0.87459 | 0.83676 | 0.80073 | 0.76642 | 0.70259 | 0.64461 | 0.59190 | 0.54393 | 0.50025 | 0.46043 | 0.42410 | 0.39092 | 0.36061 |
| 10 | 0.90529 | 0.86167 | 0.82035 | 0.78120 | 0.74409 | 0.67556 | 0.61391 | 0.55839 | 0.50835 | 0.46319 | 0.42241 | 0.38554 | 0.35218 | 0.32197 |
| 11 | 0.89632 | 0.84893 | 0.80426 | 0.76214 | 0.72242 | 0.64958 | 0.58468 | 0.52679 | 0.47509 | 0.42888 | 0.38753 | 0.35049 | 0.31728 | 0.28748 |
| 12 | 0.88745 | 0.83639 | 0.78849 | 0.74356 | 0.70138 | 0.62460 | 0.55684 | 0.49697 | 0.44401 | 0.39711 | 0.35553 | 0.31863 | 0.28584 | 0.25668 |
| 13 | 0.87866 | 0.82403 | 0.77303 | 0.72542 | 0.68095 | 0.60057 | 0.53032 | 0.46884 | 0.41496 | 0.36770 | 0.32618 | 0.28966 | 0.25751 | 0.22917 |
| 14 | 0.86996 | 0.81185 | 0.75788 | 0.70773 | 0.66112 | 0.57748 | 0.50507 | 0.44230 | 0.38782 | 0.34046 | 0.29925 | 0.26333 | 0.23199 | 0.20462 |
| 15 | 0.86135 | 0.79985 | 0.74301 | 0.69047 | 0.64186 | 0.55526 | 0.48102 | 0.41727 | 0.36245 | 0.31524 | 0.27454 | 0.23939 | 0.20900 | 0.18270 |
| 16 | 0.85282 | 0.78803 | 0.72845 | 0.67362 | 0.62317 | 0.53391 | 0.45811 | 0.39365 | 0.33873 | 0.29189 | 0.25187 | 0.21763 | 0.18829 | 0.16312 |
| 17 | 0.84438 | 0.77639 | 0.71416 | 0.65720 | 0.60502 | 0.51337 | 0.43630 | 0.37136 | 0.31657 | 0.27027 | 0.23107 | 0.19784 | 0.16963 | 0.14564 |
| 18 | 0.83602 | 0.76491 | 0.70016 | 0.64117 | 0.58739 | 0.49363 | 0.41552 | 0.35034 | 0.29586 | 0.25025 | 0.21199 | 0.17986 | 0.15282 | 0.13004 |
| 19 | 0.82774 | 0.75361 | 0.68643 | 0.62553 | 0.57029 | 0.47464 | 0.39573 | 0.33051 | 0.27651 | 0.23171 | 0.19449 | 0.16351 | 0.13768 | 0.11611 |
| 20 | 0.81954 | 0.74247 | 0.67297 | 0.61027 | 0.55368 | 0.45639 | 0.37689 | 0.31180 | 0.25842 | 0.21455 | 0.17843 | 0.14864 | 0.12403 | 0.10367 |
| 21 | 0.81143 | 0.73150 | 0.65978 | 0.59539 | 0.53755 | 0.43883 | 0.35894 | 0.29416 | 0.24151 | 0.19866 | 0.16370 | 0.13513 | 0.11174 | 0.09256 |
| 22 | 0.80340 | 0.72069 | 0.64684 | 0.58086 | 0.52189 | 0.42196 | 0.34185 | 0.27751 | 0.22571 | 0.18394 | 0.15018 | 0.12285 | 0.10067 | 0.08264 |
| 23 | 0.79544 | 0.71004 | 0.63416 | 0.56670 | 0.50669 | 0.40573 | 0.32557 | 0.26180 | 0.21095 | 0.17032 | 0.13778 | 0.11168 | 0.09069 | 0.07379 |
| 24 | 0.78757 | 0.69954 | 0.62172 | 0.55288 | 0.49193 | 0.39012 | 0.31007 | 0.24698 | 0.19715 | 0.15770 | 0.12640 | 0.10153 | 0.08170 | 0.06588 |
| 25 | 0.77977 | 0.68921 | 0.60953 | 0.53939 | 0.47761 | 0.37512 | 0.29530 | 0.23300 | 0.18425 | 0.14602 | 0.11597 | 0.09230 | 0.07361 | 0.05882 |
| 30 | 0.74192 | 0.63976 | 0.55207 | 0.47674 | 0.41199 | 0.30832 | 0.23138 | 0.17411 | 0.13137 | 0.09938 | 0.07537 | 0.05731 | 0.04368 | 0.03338 |
| 40 | 0.67165 | 0.55126 | 0.45289 | 0.37243 | 0.30656 | 0.20829 | 0.14205 | 0.09722 | 0.06678 | 0.04603 | 0.03184 | 0.02209 | 0.01538 | 0.01075 |
| 50 | 0.60804 | 0.47500 | 0.37153 | 0.29094 | 0.22811 | 0.14071 | 0.08720 | 0.05429 | 0.03395 | 0.02132 | 0.01345 | 0.00852 | 0.00542 | 0.00346 |

Figure 18.2 Present Value of Annuity Due (annuity in advance—beginning of period payments)

| Periods | Rate per Period | | | | | | | | | | | | | |
|---------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| | 1.00% | 1.50% | 2.00% | 2.50% | 3.00% | 4.00% | 5.00% | 6.00% | 7.00% | 8.00% | 9.00% | 10.00% | 11.00% | 12.00% |
| 1 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| 2 | 1.99010 | 1.98522 | 1.98039 | 1.97561 | 1.97087 | 1.96154 | 1.95238 | 1.94340 | 1.93458 | 1.92593 | 1.91743 | 1.90909 | 1.90090 | 1.89286 |
| 3 | 2.97040 | 2.95588 | 2.94156 | 2.92742 | 2.91347 | 2.88609 | 2.85941 | 2.83339 | 2.80802 | 2.78326 | 2.75911 | 2.73554 | 2.71252 | 2.69005 |
| 4 | 3.94099 | 3.91220 | 3.88388 | 3.85602 | 3.82861 | 3.77509 | 3.72325 | 3.67301 | 3.62432 | 3.57710 | 3.53129 | 3.48685 | 3.44371 | 3.40183 |
| 5 | 4.90197 | 4.85438 | 4.80773 | 4.76197 | 4.71710 | 4.62990 | 4.54595 | 4.46511 | 4.38721 | 4.31213 | 4.23972 | 4.16987 | 4.10245 | 4.03735 |
| 6 | 5.85343 | 5.78264 | 5.71346 | 5.64583 | 5.57971 | 5.45182 | 5.32948 | 5.21236 | 5.10020 | 4.99271 | 4.88965 | 4.79079 | 4.69590 | 4.60478 |
| 7 | 6.79548 | 6.69719 | 6.60143 | 6.50813 | 6.41719 | 6.24214 | 6.07569 | 5.91732 | 5.76654 | 5.62288 | 5.48592 | 5.35526 | 5.23054 | 5.11141 |
| 8 | 7.72819 | 7.59821 | 7.47199 | 7.34939 | 7.23028 | 7.00205 | 6.78637 | 6.58238 | 6.38929 | 6.20637 | 6.03295 | 5.86842 | 5.71220 | 5.56376 |
| 9 | 8.65168 | 8.48593 | 8.32548 | 8.17014 | 8.01969 | 7.73274 | 7.46321 | 7.20979 | 6.97130 | 6.74664 | 6.53482 | 6.33493 | 6.14612 | 5.96764 |
| 10 | 9.56602 | 9.36052 | 9.16224 | 8.97087 | 8.78611 | 8.43533 | 8.10782 | 7.80169 | 7.51523 | 7.24689 | 6.99525 | 6.75902 | 6.53705 | 6.32825 |
| 11 | 10.47130 | 10.22218 | 9.98259 | 9.75206 | 9.53020 | 9.11090 | 8.72173 | 8.36009 | 8.02358 | 7.71008 | 7.41766 | 7.14457 | 6.88923 | 6.65022 |
| 12 | 11.36763 | 11.07112 | 10.78685 | 10.51421 | 10.25262 | 9.76048 | 9.30641 | 8.88687 | 8.49867 | 8.13896 | 7.80519 | 7.49506 | 7.20652 | 6.93770 |
| 13 | 12.25508 | 11.90751 | 11.57534 | 11.25776 | 10.95400 | 10.38507 | 9.86325 | 9.38384 | 8.94269 | 8.53608 | 8.16073 | 7.81369 | 7.49236 | 7.19437 |
| 14 | 13.13374 | 12.73153 | 12.34837 | 11.98318 | 11.63496 | 10.98565 | 10.39357 | 9.85268 | 9.35765 | 8.90378 | 8.48690 | 8.10336 | 7.74987 | 7.42355 |
| 15 | 14.00370 | 13.54338 | 13.10625 | 12.69091 | 12.29607 | 11.56312 | 10.89864 | 10.29498 | 9.74547 | 9.24424 | 8.78615 | 8.36669 | 7.98187 | 7.62817 |
| 16 | 14.86505 | 14.34323 | 13.84926 | 13.38138 | 12.93794 | 12.11839 | 11.37966 | 10.71225 | 10.10791 | 9.55948 | 9.06069 | 8.60608 | 8.19087 | 7.81086 |
| 17 | 15.71787 | 15.13126 | 14.57771 | 14.05500 | 13.56110 | 12.65230 | 11.83777 | 11.10590 | 10.44665 | 9.85137 | 9.31256 | 8.82371 | 8.37916 | 7.97399 |
| 18 | 16.56225 | 15.90765 | 15.29187 | 14.71220 | 14.16612 | 13.16567 | 12.27407 | 11.47726 | 10.76322 | 10.12164 | 9.54363 | 9.02155 | 8.54879 | 8.11963 |
| 19 | 17.39827 | 16.67256 | 15.99203 | 15.35336 | 14.75351 | 13.65930 | 12.68959 | 11.82760 | 11.05909 | 10.37189 | 9.75563 | 9.20141 | 8.70162 | 8.24967 |
| 20 | 18.22601 | 17.42617 | 16.67846 | 15.97889 | 15.32380 | 14.13394 | 13.08532 | 12.15812 | 11.33560 | 10.60360 | 9.95011 | 9.36492 | 8.83929 | 8.36578 |
| 21 | 19.04555 | 18.16864 | 17.35143 | 16.58916 | 15.87747 | 14.59033 | 13.46221 | 12.46992 | 11.59401 | 10.81815 | 10.12855 | 9.51356 | 8.96333 | 8.46944 |
| 22 | 19.85698 | 18.90014 | 18.01121 | 17.18455 | 16.41502 | 15.02916 | 13.82115 | 12.76408 | 11.83553 | 11.01680 | 10.29224 | 9.64869 | 9.07507 | 8.56200 |
| 23 | 20.66038 | 19.62082 | 18.65805 | 17.76541 | 16.93692 | 15.45112 | 14.16300 | 13.04158 | 12.06124 | 11.20074 | 10.44243 | 9.77154 | 9.17574 | 8.64465 |
| 24 | 21.45582 | 20.33086 | 19.29220 | 18.33211 | 17.44361 | 15.85684 | 14.48857 | 13.30338 | 12.27219 | 11.37106 | 10.58021 | 9.88322 | 9.26643 | 8.71843 |
| 25 | 22.24339 | 21.03041 | 19.91393 | 18.88499 | 17.93554 | 16.24696 | 14.79864 | 13.55036 | 12.46933 | 11.52876 | 10.70661 | 9.98474 | 9.34814 | 8.78432 |
| 30 | 26.06579 | 24.37608 | 22.84438 | 21.45355 | 20.18845 | 17.98371 | 16.14107 | 14.59072 | 13.27767 | 12.15841 | 11.19828 | 10.36961 | 9.65011 | 9.02181 |
| 40 | 33.16303 | 30.36458 | 27.90259 | 25.73034 | 23.80822 | 20.58448 | 18.01704 | 15.94907 | 14.26493 | 12.87858 | 11.72552 | 10.75696 | 9.93567 | 9.23303 |
| 50 | 39.58808 | 35.52468 | 32.05208 | 29.07137 | 26.50166 | 22.34147 | 19.16872 | 16.70757 | 14.76680 | 13.21216 | 11.94823 | 10.90630 | 10.03624 | 9.30104 |

Figure 18.3 Present Value of Ordinary Annuity (annuity in arrears—end of period payments)

| Periods | Rate per Period | | | | | | | | | | | | | |
|---------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| | 1.00% | 1.50% | 2.00% | 2.50% | 3.00% | 4.00% | 5.00% | 6.00% | 7.00% | 8.00% | 9.00% | 10.00% | 11.00% | 12.00% |
| 1 | 0.99010 | 0.98522 | 0.98039 | 0.97561 | 0.97087 | 0.96154 | 0.95238 | 0.94340 | 0.93458 | 0.92593 | 0.91743 | 0.90909 | 0.90090 | 0.89286 |
| 2 | 1.97040 | 1.95588 | 1.94156 | 1.92742 | 1.91347 | 1.88609 | 1.85941 | 1.83339 | 1.80802 | 1.78326 | 1.75911 | 1.73554 | 1.71252 | 1.69005 |
| 3 | 2.94099 | 2.91220 | 2.88388 | 2.85602 | 2.82861 | 2.77509 | 2.72325 | 2.67301 | 2.62432 | 2.57710 | 2.53129 | 2.48685 | 2.44371 | 2.40183 |
| 4 | 3.90197 | 3.85438 | 3.80773 | 3.76197 | 3.71710 | 3.62990 | 3.54595 | 3.46511 | 3.38721 | 3.31213 | 3.23972 | 3.16987 | 3.10245 | 3.03735 |
| 5 | 4.85343 | 4.78264 | 4.71346 | 4.64583 | 4.57971 | 4.45182 | 4.32948 | 4.21236 | 4.10020 | 3.99271 | 3.88965 | 3.79079 | 3.69590 | 3.60478 |
| 6 | 5.79548 | 5.69719 | 5.60143 | 5.50813 | 5.41719 | 5.24214 | 5.07569 | 4.91732 | 4.76654 | 4.62288 | 4.48592 | 4.35526 | 4.23054 | 4.11141 |
| 7 | 6.72819 | 6.59821 | 6.47199 | 6.34939 | 6.23028 | 6.02025 | 5.78637 | 5.58238 | 5.38929 | 5.20637 | 5.03295 | 4.86842 | 4.71220 | 4.56376 |
| 8 | 7.65168 | 7.48593 | 7.32548 | 7.17014 | 7.01969 | 6.73274 | 6.46321 | 6.20979 | 5.97130 | 5.74664 | 5.53482 | 5.33493 | 5.14612 | 4.96764 |
| 9 | 8.56602 | 8.36052 | 8.16224 | 7.97087 | 7.78611 | 7.43533 | 7.10782 | 6.80169 | 6.51523 | 6.24689 | 5.99525 | 5.75902 | 5.53705 | 5.32825 |
| 10 | 9.47130 | 9.22218 | 8.98259 | 8.75206 | 8.53020 | 8.11090 | 7.72173 | 7.36009 | 7.02358 | 6.71008 | 6.41766 | 6.14457 | 5.88923 | 5.65022 |
| 11 | 10.36763 | 10.07112 | 9.78685 | 9.51421 | 9.25262 | 8.76048 | 8.30641 | 7.88687 | 7.49867 | 7.13896 | 6.80519 | 6.49506 | 6.20652 | 5.93770 |
| 12 | 11.25508 | 10.90751 | 10.57534 | 10.25776 | 9.95400 | 9.38507 | 8.86325 | 8.38384 | 7.94269 | 7.53608 | 7.16073 | 6.81369 | 6.49236 | 6.19437 |
| 13 | 12.13374 | 11.73153 | 11.34837 | 10.98318 | 10.63496 | 9.98565 | 9.39357 | 8.85268 | 8.35765 | 7.90378 | 7.48690 | 7.10336 | 6.74987 | 6.42355 |
| 14 | 13.00370 | 12.54338 | 12.10625 | 11.69091 | 11.29607 | 10.56312 | 9.89864 | 9.29498 | 8.74547 | 8.24424 | 7.78615 | 7.36669 | 6.98187 | 6.62817 |
| 15 | 13.86505 | 13.34323 | 12.84926 | 12.38138 | 11.93794 | 11.11839 | 10.37966 | 9.71225 | 9.10791 | 8.55948 | 8.06069 | 7.60608 | 7.19087 | 6.81086 |
| 16 | 14.71787 | 14.13126 | 13.57771 | 13.05500 | 12.56110 | 11.65230 | 10.83777 | 10.10590 | 9.44665 | 8.85137 | 8.31256 | 7.82371 | 7.37916 | 6.97399 |
| 17 | 15.56225 | 14.90765 | 14.29187 | 13.71220 | 13.16612 | 12.16567 | 11.27407 | 10.47726 | 9.76322 | 9.12164 | 8.54363 | 8.02155 | 7.54879 | 7.11963 |
| 18 | 16.39827 | 15.67256 | 14.99203 | 14.35336 | 13.75351 | 12.65930 | 11.68959 | 10.82760 | 10.05909 | 9.37189 | 8.75563 | 8.20141 | 7.70162 | 7.24967 |
| 19 | 17.22601 | 16.42617 | 15.67846 | 14.97889 | 14.32380 | 13.13394 | 12.08532 | 11.15812 | 10.33560 | 9.60360 | 8.95011 | 8.36492 | 7.83929 | 7.36578 |
| 20 | 18.04555 | 17.16864 | 16.35143 | 15.58916 | 14.87747 | 13.59033 | 12.46221 | 11.46992 | 10.59401 | 9.81815 | 9.12855 | 8.51356 | 7.96333 | 7.46944 |
| 21 | 18.85698 | 17.90014 | 17.01121 | 16.18455 | 15.41502 | 14.02916 | 12.82115 | 11.76408 | 10.83553 | 10.01680 | 9.29224 | 8.64869 | 8.07507 | 7.56200 |
| 22 | 19.66038 | 18.62082 | 17.65805 | 16.76541 | 15.93692 | 14.45112 | 13.16300 | 12.04158 | 11.06124 | 10.20074 | 9.44243 | 8.77154 | 8.17574 | 7.64465 |
| 23 | 20.45582 | 19.33086 | 18.29220 | 17.33211 | 16.44361 | 14.85684 | 13.48857 | 12.30338 | 11.27219 | 10.37106 | 9.58021 | 8.88322 | 8.26643 | 7.71843 |
| 24 | 21.24339 | 20.03041 | 18.91393 | 17.88499 | 16.93554 | 15.24696 | 13.79864 | 12.55036 | 11.46933 | 10.52876 | 9.70661 | 8.98474 | 8.34814 | 7.78432 |
| 25 | 22.02316 | 20.71961 | 19.52346 | 18.42438 | 17.41315 | 15.62208 | 14.09394 | 12.78336 | 11.65358 | 10.67478 | 9.82258 | 9.07704 | 8.42174 | 7.84314 |
| 30 | 25.80771 | 24.01584 | 22.39646 | 20.93029 | 19.60044 | 17.29203 | 15.37245 | 13.76483 | 12.40904 | 11.25778 | 10.27365 | 9.42691 | 8.69379 | 8.05518 |
| 40 | 32.83469 | 29.91585 | 27.35548 | 25.10278 | 23.11477 | 19.79277 | 17.15909 | 15.04630 | 13.33171 | 11.92461 | 10.75736 | 9.77905 | 8.95105 | 8.24378 |
| 50 | 39.19612 | 34.99969 | 31.42361 | 28.36231 | 25.72976 | 21.48218 | 18.25593 | 15.76186 | 13.80075 | 12.23348 | 10.96168 | 9.91481 | 9.04165 | 8.30450 |