

**FUTURE VALUE of a LUMP SUM (LS<sub>fv</sub>): future worth of a Present Value (LS<sub>pv</sub>) compounded at interest rate (r) over some time period (n)**

**LS<sub>fv</sub> = LS<sub>pv</sub>(1+r)<sup>n</sup> or in computer language =LS<sub>pv</sub>\*(1+B5)^A6 (for 1% and 1 period)**

| n  | 1%        | 2%        | 3%       | 4%       | 5%       | 6%       | 7%       | 8%        | 9%        | 10%       | 11%       | 12%       | 13%       | 14%       | 15%       | 16%        | 17%        | 18%        | n  |
|----|-----------|-----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|----|
| 1  | 1.0100    | 1.0200    | 1.0300   | 1.0400   | 1.0500   | 1.0600   | 1.0700   | 1.0800    | 1.0900    | 1.1000    | 1.1100    | 1.1200    | 1.1300    | 1.1400    | 1.1500    | 1.1600     | 1.1700     | 1.1800     | 1  |
| 2  | 1.0201    | 1.0404    | 1.0609   | 1.0816   | 1.1025   | 1.1236   | 1.1449   | 1.1664    | 1.1881    | 1.2100    | 1.2321    | 1.2544    | 1.2769    | 1.2996    | 1.3225    | 1.3456     | 1.3689     | 1.3924     | 2  |
| 3  | 1.0303    | 1.0612    | 1.0927   | 1.1249   | 1.1576   | 1.1910   | 1.2250   | 1.2597    | 1.2950    | 1.3310    | 1.3676    | 1.4049    | 1.4429    | 1.4815    | 1.5209    | 1.5609     | 1.6016     | 1.6430     | 3  |
| 4  | 1.0406    | 1.0824    | 1.1255   | 1.1699   | 1.2155   | 1.2625   | 1.3108   | 1.3605    | 1.4116    | 1.4641    | 1.5181    | 1.5735    | 1.6305    | 1.6890    | 1.7490    | 1.8106     | 1.8739     | 1.9388     | 4  |
| 5  | 1.0510    | 1.1041    | 1.1593   | 1.2167   | 1.2763   | 1.3382   | 1.4026   | 1.4693    | 1.5386    | 1.6105    | 1.6851    | 1.7623    | 1.8424    | 1.9254    | 2.0114    | 2.1003     | 2.1924     | 2.2878     | 5  |
| 6  | 1.0615    | 1.1262    | 1.1941   | 1.2653   | 1.3401   | 1.4185   | 1.5007   | 1.5869    | 1.6771    | 1.7716    | 1.8704    | 1.9738    | 2.0820    | 2.1950    | 2.3131    | 2.4364     | 2.5652     | 2.6996     | 6  |
| 7  | 1.0721    | 1.1487    | 1.2299   | 1.3159   | 1.4071   | 1.5036   | 1.6058   | 1.7138    | 1.8280    | 1.9487    | 2.0762    | 2.2107    | 2.3526    | 2.5023    | 2.6600    | 2.8262     | 3.0012     | 3.1855     | 7  |
| 8  | 1.0829    | 1.1717    | 1.2668   | 1.3686   | 1.4775   | 1.5938   | 1.7182   | 1.8509    | 1.9926    | 2.1436    | 2.3045    | 2.4760    | 2.6584    | 2.8526    | 3.0590    | 3.2784     | 3.5115     | 3.7589     | 8  |
| 9  | 1.0937    | 1.1951    | 1.3048   | 1.4233   | 1.5513   | 1.6895   | 1.8385   | 1.9990    | 2.1719    | 2.3579    | 2.5580    | 2.7731    | 3.0040    | 3.2519    | 3.5179    | 3.8030     | 4.1084     | 4.4355     | 9  |
| 10 | 1.1046    | 1.2190    | 1.3439   | 1.4802   | 1.6289   | 1.7908   | 1.9672   | 2.1589    | 2.3674    | 2.5937    | 2.8394    | 3.1058    | 3.3946    | 3.7072    | 4.0456    | 4.4114     | 4.8068     | 5.2338     | 10 |
| 11 | 1.1157    | 1.2434    | 1.3842   | 1.5395   | 1.7103   | 1.8983   | 2.1049   | 2.3316    | 2.5804    | 2.8531    | 3.1518    | 3.4785    | 3.8359    | 4.2262    | 4.6524    | 5.1173     | 5.6240     | 6.1759     | 11 |
| 12 | 1.1268    | 1.2682    | 1.4258   | 1.6010   | 1.7959   | 2.0122   | 2.2522   | 2.5182    | 2.8127    | 3.1384    | 3.4985    | 3.8960    | 4.3345    | 4.8179    | 5.3503    | 5.9360     | 6.5801     | 7.2876     | 12 |
| 14 | 1.1495    | 1.3195    | 1.5126   | 1.7317   | 1.9799   | 2.2609   | 2.5785   | 2.9372    | 3.3417    | 3.7975    | 4.3104    | 4.8871    | 5.5348    | 6.2613    | 7.0757    | 7.9875     | 9.0075     | 10.1472    | 14 |
| 16 | 1.1726    | 1.3728    | 1.6047   | 1.8730   | 2.1829   | 2.5404   | 2.9522   | 3.4259    | 3.9703    | 4.5950    | 5.3109    | 6.1304    | 7.0673    | 8.1372    | 9.3576    | 10.7480    | 12.3303    | 14.1290    | 16 |
| 18 | 1.1961    | 1.4282    | 1.7024   | 2.0258   | 2.4066   | 2.8543   | 3.3799   | 3.9960    | 4.7171    | 5.5599    | 6.5436    | 7.6900    | 9.0243    | 10.5752   | 12.3755   | 14.4625    | 16.8790    | 19.6733    | 18 |
| 20 | 1.2202    | 1.4859    | 1.8061   | 2.1911   | 2.6533   | 3.2071   | 3.8697   | 4.6610    | 5.6044    | 6.7275    | 8.0623    | 9.6463    | 11.5231   | 13.7435   | 16.3665   | 19.4608    | 23.1056    | 27.3930    | 20 |
| 22 | 1.2447    | 1.5460    | 1.9161   | 2.3699   | 2.9253   | 3.6035   | 4.4304   | 5.4365    | 6.6586    | 8.1403    | 9.9336    | 12.1003   | 14.7138   | 17.8610   | 21.6447   | 26.1864    | 31.6293    | 38.1421    | 22 |
| 24 | 1.2697    | 1.6084    | 2.0328   | 2.5633   | 3.2251   | 4.0489   | 5.0724   | 6.3412    | 7.9111    | 9.8497    | 12.2392   | 15.1786   | 18.7881   | 23.2122   | 28.6252   | 35.2364    | 43.2973    | 53.1090    | 24 |
| 30 | 1.3478    | 1.8114    | 2.4273   | 3.2434   | 4.3219   | 5.7435   | 7.6123   | 10.0627   | 13.2677   | 17.4494   | 22.8923   | 29.9599   | 39.1159   | 50.9502   | 66.2118   | 85.8499    | 111.0647   | 143.3706   | 30 |
| 36 | 1.43      | 2.04      | 2.90     | 4.10     | 5.79     | 8.15     | 11.42    | 15.97     | 22.25     | 30.91     | 42.82     | 59.14     | 81.44     | 111.83    | 153.15    | 209.16     | 284.90     | 387.04     | 36 |
| 42 | 1.52      | 2.30      | 3.46     | 5.19     | 7.76     | 11.56    | 17.14    | 25.34     | 37.32     | 54.76     | 80.09     | 116.72    | 169.55    | 245.47    | 354.25    | 509.61     | 730.81     | 1044.83    | 42 |
| 48 | 1.61      | 2.59      | 4.13     | 6.57     | 10.40    | 16.39    | 25.73    | 40.21     | 62.59     | 97.02     | 149.80    | 230.39    | 352.99    | 538.81    | 819.40    | 1241.61    | 1874.66    | 2820.57    | 48 |
| 54 | 1.71      | 2.91      | 4.93     | 8.31     | 13.94    | 23.26    | 38.61    | 63.81     | 104.96    | 171.87    | 280.18    | 454.75    | 734.91    | 1182.67   | 1895.32   | 3025.04    | 4808.80    | 7614.27    | 54 |
| 60 | 1.82      | 3.28      | 5.89     | 10.52    | 18.68    | 32.99    | 57.95    | 101.26    | 176.03    | 304.48    | 524.06    | 897.60    | 1530.05   | 2595.92   | 4384.00   | 7370.20    | 12335.36   | 20555.14   | 60 |
| 72 | 2.05      | 4.16      | 8.40     | 16.84    | 33.55    | 66.38    | 130.51   | 254.98    | 495.12    | 955.59    | 1833.39   | 3497.02   | 6632.05   | 12506.89  | 23455.49  | 43749.71   | 81167.48   | 149797.49  | 72 |
| n  | 19%       | 20%       | 21%      | 22%      | 23%      | 24%      | 25%      | 26%       | 27%       | 28%       | 29%       | 30%       | 31%       | 32%       | 33%       | 34%        | 35%        | 36%        | n  |
| 1  | 1.1900    | 1.2000    | 1.2100   | 1.2200   | 1.2300   | 1.2400   | 1.2500   | 1.2600    | 1.2700    | 1.2800    | 1.2900    | 1.3000    | 1.3100    | 1.3200    | 1.3300    | 1.3400     | 1.3500     | 1.3600     | 1  |
| 2  | 1.4161    | 1.4400    | 1.4640   | 1.4880   | 1.5130   | 1.5380   | 1.5630   | 1.5880    | 1.6130    | 1.6380    | 1.6640    | 1.6900    | 1.7160    | 1.7420    | 1.7690    | 1.7960     | 1.8230     | 1.8500     | 2  |
| 3  | 1.6852    | 1.7280    | 1.7720   | 1.8160   | 1.8610   | 1.9070   | 1.9530   | 2.0000    | 2.0480    | 2.0970    | 2.1470    | 2.1970    | 2.2480    | 2.3000    | 2.3530    | 2.4060     | 2.4600     | 2.5150     | 3  |
| 4  | 2.0053    | 2.0736    | 2.1440   | 2.2150   | 2.2890   | 2.3640   | 2.4410   | 2.5200    | 2.6010    | 2.6840    | 2.7690    | 2.8560    | 2.9450    | 3.0360    | 3.1290    | 3.2240     | 3.3220     | 3.4210     | 4  |
| 5  | 2.3864    | 2.4883    | 2.5940   | 2.7030   | 2.8150   | 2.9320   | 3.0520   | 3.1760    | 3.3040    | 3.4360    | 3.5720    | 3.7130    | 3.8580    | 4.0070    | 4.1620    | 4.3200     | 4.4840     | 4.6530     | 5  |
| 6  | 2.8398    | 2.9860    | 3.1380   | 3.2970   | 3.4630   | 3.6350   | 3.8150   | 4.0020    | 4.1960    | 4.3980    | 4.6080    | 4.8270    | 5.0540    | 5.2900    | 5.5350    | 5.7890     | 6.0530     | 6.3280     | 6  |
| 7  | 3.3793    | 3.5832    | 3.7970   | 4.0230   | 4.2590   | 4.5080   | 4.7680   | 5.0420    | 5.3290    | 5.6290    | 5.9450    | 6.2750    | 6.6210    | 6.9830    | 7.3610    | 7.7580     | 8.1720     | 8.6050     | 7  |
| 8  | 4.0214    | 4.2998    | 4.5950   | 4.9080   | 5.2390   | 5.5900   | 5.9600   | 6.3530    | 6.7680    | 7.2060    | 7.6690    | 8.1570    | 8.6730    | 9.2170    | 9.7910    | 10.3950    | 11.0320    | 11.7030    | 8  |
| 9  | 4.7854    | 5.1598    | 5.5600   | 5.9870   | 6.4440   | 6.9310   | 7.4510   | 8.0050    | 8.5950    | 9.2230    | 9.8930    | 10.6040   | 11.3620   | 12.1660   | 13.0220   | 13.9300    | 14.8940    | 15.9170    | 9  |
| 10 | 5.6947    | 6.1917    | 6.7270   | 7.3050   | 7.9260   | 8.5940   | 9.3130   | 10.0860   | 10.9150   | 11.8060   | 12.7610   | 13.7860   | 14.8840   | 16.0600   | 17.3190   | 18.6660    | 20.1070    | 21.6470    | 10 |
| 11 | 6.7767    | 7.4301    | 8.1400   | 8.9120   | 9.7490   | 10.6570  | 11.6420  | 12.7080   | 13.8620   | 15.1120   | 16.4620   | 17.9220   | 19.4980   | 21.1990   | 23.0340   | 25.0120    | 27.1440    | 29.4390    | 11 |
| 12 | 8.0642    | 8.9161    | 9.8500   | 10.8720  | 11.9910  | 13.2150  | 14.5520  | 16.0120   | 17.6050   | 19.3430   | 21.2360   | 23.2980   | 25.5420   | 27.9830   | 30.6350   | 33.5160    | 36.6440    | 40.0370    | 12 |
| 14 | 11.1498   | 12.8392   | 14.4210  | 16.1820  | 18.1410  | 20.3190  | 22.7370  | 25.4210   | 28.3960   | 31.6910   | 35.3390   | 39.3740   | 43.8330   | 48.7570   | 54.1900   | 60.1820    | 66.7840    | 74.0530    | 14 |
| 16 | 16.1715   | 18.4884   | 21.1140  | 24.0860  | 27.4460  | 31.2430  | 35.5270  | 40.3580   | 45.7990   | 51.9230   | 58.8080   | 66.5420   | 75.2210   | 84.9540   | 95.8580   | 108.0630   | 121.7140   | 136.9690   | 16 |
| 18 | 22.9005   | 26.6233   | 30.9130  | 35.8490  | 41.5230  | 48.0390  | 55.5110  | 64.0720   | 73.8700   | 85.0710   | 97.8620   | 112.4550  | 129.0870  | 148.0240  | 169.5620  | 194.0380   | 221.8240   | 253.3380   | 18 |
| 20 | 32.4294   | 38.3376   | 45.2590  | 53.3580  | 62.8210  | 73.8640  | 86.7360  | 101.7210  | 119.1450  | 139.3800  | 162.8520  | 190.0500  | 221.5270  | 257.9160  | 299.9390  | 348.4140   | 404.2740   | 468.5740   | 20 |
| 22 | 45.9233   | 55.2061   | 66.2640  | 79.4180  | 95.0410  | 113.5740 | 135.5250 | 161.4920  | 192.1680  | 228.3600  | 271.0030  | 321.1840  | 380.1620  | 449.3930  | 530.5620  | 625.6130   | 736.7890   | 866.6740   | 22 |
| 24 | 65.0320   | 79.4968   | 97.0170  | 118.2050 | 143.7880 | 174.6310 | 211.7580 | 256.3850  | 309.9480  | 374.1440  | 450.9760  | 542.8010  | 652.3960  | 783.0230  | 938.5110  | 1123.3500  | 1342.7970  | 1603.0010  | 24 |
| 30 | 184.6753  | 237.3763  | 304.4820 | 389.7580 | 497.9130 | 634.8200 | 807.7940 | 1025.9270 | 1300.5040 | 1645.5050 | 2078.2190 | 2619.9960 | 3297.1510 | 4142.0750 | 5194.5660 | 6503.4520  | 8128.5500  | 10143.0190 | 30 |
| 36 | 524.43    | 708.80    | 956      | 1285     | 1724     | 2308     | 3081     | 4105      | 5457      | 7237      | 9577      | 12646     | 16664     | 21911     | 28751     | 37651      | 49206      | 64180      | 36 |
| 42 | 1489.27   | 2116.47   | 2999     | 4238     | 5971     | 8389     | 11755    | 16427     | 22896     | 31829     | 44133     | 61041     | 84216     | 115906    | 159136    | 217972     | 297864     | 406101     | 42 |
| 48 | 4229.16   | 6319.75   | 9412     | 13972    | 20675    | 30496    | 44842    | 65733     | 96068     | 139984    | 203379    | 294633    | 425620    | 613125    | 880803    | 1261916    | 1803104    | 2569612    | 48 |
| 54 | 12009.80  | 18870.67  | 29540    | 46071    | 71594    | 110859   | 171057   | 263033    | 403089    | 615656    | 937226    | 1422136   | 2151047   | 3243339   | 4875157   | 7305654    | 10914994   | 16259270   | 54 |
| 60 | 34104.97  | 56347.51  | 92709    | 151911   | 247917   | 402996   | 652530   | 1052526   | 1691310   | 2707685   | 4318994   | 6864377   | 10871206  | 17156784  | 26983511  | 42294890   | 66073317   | 102880840  | 60 |
| 72 | 275030.73 | 502400.10 | 913160   | 1651611  | 2972816  | 5325512  | 9495568  | 16853079  | 29776106  | 52374250  | 91718964  | 159926844 | 277672766 | 480090428 | 826643299 | 1417573162 | 2421203715 | 4119091152 | 72 |



**FUTURE VALUE** of an **ANNUITY** ( $A_{fv}$ ): future worth of a Present Value ( $A_{pv}$ ) compounded at interest rate (r) over some time period (n)

$A_{fv} = A_{pv}(((1+r)^n-1)/r)$  or in spreadsheet format  $=A_{pv}*(((1+B5)^A6-1)/B5)$  (for 1% and 1 period)

| n  | 1%      | 2%      | 3%      | 4%       | 5%       | 6%       | 7%       | 8%       | 9%        | 10%       | 11%       | 12%       | 13%       | 14%        | 15%        | 16%        | 17%        | 18%         | n  |
|----|---------|---------|---------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|----|
| 1  | 1.0000  | 1.0000  | 1.0000  | 1.0000   | 1.0000   | 1.0000   | 1.0000   | 1.0000   | 1.0000    | 1.0000    | 1.0000    | 1.0000    | 1.0000    | 1.0000     | 1.0000     | 1.0000     | 1.0000     | 1.0000      | 1  |
| 2  | 2.0100  | 2.0200  | 2.0300  | 2.0400   | 2.0500   | 2.0600   | 2.0700   | 2.0800   | 2.0900    | 2.1000    | 2.1100    | 2.1200    | 2.1300    | 2.1400     | 2.1500     | 2.1600     | 2.1700     | 2.1800      | 2  |
| 3  | 3.0301  | 3.0604  | 3.0909  | 3.1216   | 3.1525   | 3.1836   | 3.2149   | 3.2464   | 3.2781    | 3.3100    | 3.3421    | 3.3744    | 3.4069    | 3.4396     | 3.4725     | 3.5056     | 3.5389     | 3.5724      | 3  |
| 4  | 4.0604  | 4.1216  | 4.1836  | 4.2465   | 4.3101   | 4.3746   | 4.4399   | 4.5061   | 4.5731    | 4.6410    | 4.7097    | 4.7793    | 4.8498    | 4.9211     | 4.9934     | 5.0665     | 5.1405     | 5.2154      | 4  |
| 5  | 5.1010  | 5.2040  | 5.3091  | 5.4163   | 5.5256   | 5.6371   | 5.7507   | 5.8666   | 5.9847    | 6.1051    | 6.2278    | 6.3528    | 6.4803    | 6.6101     | 6.7424     | 6.8771     | 7.0144     | 7.1542      | 5  |
| 6  | 6.1520  | 6.3081  | 6.4684  | 6.6330   | 6.8019   | 6.9753   | 7.1533   | 7.3359   | 7.5233    | 7.7156    | 7.9129    | 8.1152    | 8.3227    | 8.5355     | 8.7537     | 8.9775     | 9.2068     | 9.4420      | 6  |
| 7  | 7.2135  | 7.4343  | 7.6625  | 7.8983   | 8.1420   | 8.3938   | 8.6540   | 8.9228   | 9.2004    | 9.4872    | 9.7833    | 10.0890   | 10.4047   | 10.7305    | 11.0668    | 11.4139    | 11.7720    | 12.1415     | 7  |
| 8  | 8.2857  | 8.5830  | 8.8923  | 9.2142   | 9.5491   | 9.8975   | 10.2598  | 10.6366  | 11.0285   | 11.4359   | 11.8594   | 12.2997   | 12.7573   | 13.2328    | 13.7268    | 14.2401    | 14.7733    | 15.3270     | 8  |
| 9  | 9.3685  | 9.7546  | 10.1591 | 10.5828  | 11.0266  | 11.4913  | 11.9780  | 12.4876  | 13.0210   | 13.5795   | 14.1640   | 14.7757   | 15.4157   | 16.0853    | 16.7858    | 17.5185    | 18.2847    | 19.0859     | 9  |
| 10 | 10.4622 | 10.9497 | 11.4639 | 12.0061  | 12.5779  | 13.1808  | 13.8164  | 14.4866  | 15.1929   | 15.9374   | 16.7220   | 17.5487   | 18.4197   | 19.3373    | 20.3037    | 21.3215    | 22.3931    | 23.5213     | 10 |
| 11 | 11.5668 | 12.1687 | 12.8078 | 13.4864  | 14.2068  | 14.9716  | 15.7836  | 16.6455  | 17.5603   | 18.5312   | 19.5614   | 20.6546   | 21.8143   | 23.0445    | 24.3493    | 25.7329    | 27.1999    | 28.7551     | 11 |
| 12 | 12.6825 | 13.4121 | 14.1920 | 15.0258  | 15.9171  | 16.8699  | 17.8885  | 18.9771  | 20.1407   | 21.3843   | 22.7132   | 24.1331   | 25.6502   | 27.2707    | 29.0117    | 30.8502    | 32.8239    | 34.9311     | 12 |
| 14 | 14.9474 | 15.9739 | 17.0863 | 18.2919  | 19.5986  | 21.0151  | 22.5505  | 24.2149  | 26.0192   | 27.9750   | 30.0949   | 32.3926   | 34.8827   | 37.5811    | 40.5047    | 43.6720    | 47.1027    | 50.8180     | 14 |
| 16 | 17.2579 | 18.6393 | 20.1569 | 21.8245  | 23.6575  | 25.6725  | 27.8881  | 30.3243  | 33.0034   | 35.9497   | 39.1899   | 42.7533   | 46.6717   | 50.9804    | 55.7175    | 60.9250    | 66.6488    | 72.9390     | 16 |
| 18 | 19.61   | 21.41   | 23.41   | 25.65    | 28.13    | 30.91    | 34.00    | 37.45    | 41.30     | 45.60     | 50.40     | 55.75     | 61.73     | 68.39      | 75.84      | 84.14      | 93.41      | 103.74      | 18 |
| 20 | 22.02   | 24.30   | 26.87   | 29.78    | 33.07    | 36.79    | 41.00    | 45.76    | 51.16     | 57.27     | 64.20     | 72.05     | 80.95     | 91.02      | 102.44     | 115.38     | 130.03     | 146.63      | 20 |
| 22 | 24.47   | 27.30   | 30.54   | 34.25    | 38.51    | 43.39    | 49.01    | 55.46    | 62.87     | 71.40     | 81.21     | 92.50     | 105.49    | 120.44     | 137.63     | 157.41     | 180.17     | 206.34      | 22 |
| 24 | 26.97   | 30.42   | 34.43   | 39.08    | 44.50    | 50.82    | 58.18    | 66.76    | 76.79     | 88.50     | 102.17    | 118.16    | 136.83    | 158.66     | 184.17     | 213.98     | 248.81     | 289.49      | 24 |
| 30 | 34.78   | 40.57   | 47.58   | 56.08    | 66.44    | 79.06    | 94.46    | 113.28   | 136.31    | 164.49    | 199.02    | 241.33    | 293.20    | 356.79     | 434.75     | 530.31     | 647.44     | 790.95      | 30 |
| 36 | 43.08   | 51.99   | 63.28   | 77.60    | 95.84    | 119.12   | 148.91   | 187.10   | 236.12    | 299.13    | 380.16    | 484.46    | 618.75    | 791.67     | 1014.35    | 1301.03    | 1669.99    | 2144.65     | 36 |
| 42 | 51.88   | 64.86   | 82.02   | 104.82   | 135.23   | 175.95   | 230.63   | 304.24   | 403.53    | 537.64    | 718.98    | 964.36    | 1296.53   | 1746.24    | 2355.00    | 3178.79    | 4293.02    | 5799.04     | 42 |
| 48 | 61.22   | 79.35   | 104.41  | 139.26   | 188.03   | 256.56   | 353.27   | 490.13   | 684.28    | 960.17    | 1352.70   | 1911.59   | 2707.63   | 3841.48    | 5456.00    | 7753.78    | 11021.50   | 15664.26    | 48 |
| 54 | 71.14   | 95.67   | 131.14  | 182.85   | 258.77   | 370.92   | 537.32   | 785.11   | 1155.13   | 1708.72   | 2538.02   | 3781.25   | 5645.48   | 8440.47    | 12628.82   | 18900.26   | 28281.16   | 42295.96    | 54 |
| 60 | 81.67   | 114.05  | 163.05  | 237.99   | 353.58   | 533.13   | 813.52   | 1253.21  | 1944.79   | 3034.82   | 4755.07   | 7471.64   | 11761.95  | 18535.13   | 29219.99   | 46057.51   | 72555.04   | 114189.67   | 60 |
| 72 | 104.71  | 158.06  | 246.67  | 396.06   | 650.90   | 1089.63  | 1850.09  | 3174.78  | 5490.19   | 9545.94   | 16658.08  | 29133.47  | 51008.09  | 89327.78   | 156363.27  | 273429.47  | 477449.86  | 832202.70   | 72 |
| n  | 19%     | 20%     | 21%     | 22%      | 23%      | 24%      | 25%      | 26%      | 27%       | 28%       | 29%       | 30%       | 31%       | 32%        | 33%        | 34%        | 35%        | 36%         | n  |
| 1  | 1.0000  | 1.0000  | 1.0000  | 1.0000   | 1.0000   | 1.0000   | 1.0000   | 1.0000   | 1.0000    | 1.0000    | 1.0000    | 1.0000    | 1.0000    | 1.0000     | 1.0000     | 1.0000     | 1.0000     | 1.0000      | 1  |
| 2  | 2.1900  | 2.2000  | 2.2100  | 2.2200   | 2.2300   | 2.2400   | 2.2500   | 2.2600   | 2.2700    | 2.2800    | 2.2900    | 2.3000    | 2.3100    | 2.3200     | 2.3300     | 2.3400     | 2.3500     | 2.3600      | 2  |
| 3  | 3.6061  | 3.6400  | 3.6741  | 3.7084   | 3.7429   | 3.7776   | 3.8125   | 3.8476   | 3.8829    | 3.9184    | 3.9541    | 3.9900    | 4.0261    | 4.0624     | 4.0989     | 4.1356     | 4.1725     | 4.2096      | 3  |
| 4  | 5.2913  | 5.3680  | 5.4457  | 5.5242   | 5.6038   | 5.6842   | 5.7656   | 5.8480   | 5.9313    | 6.0156    | 6.1008    | 6.1870    | 6.2742    | 6.3624     | 6.4515     | 6.5417     | 6.6329     | 6.7251      | 4  |
| 5  | 7.2966  | 7.4416  | 7.5892  | 7.7396   | 7.8926   | 8.0484   | 8.2070   | 8.3684   | 8.5327    | 8.6999    | 8.8700    | 9.0431    | 9.2192    | 9.3983     | 9.5805     | 9.7659     | 9.9544     | 10.1461     | 5  |
| 6  | 9.6830  | 9.9299  | 10.1830 | 10.4423  | 10.7079  | 10.9801  | 11.2588  | 11.5442  | 11.8366   | 12.1359   | 12.4423   | 12.7560   | 13.0771   | 13.4058    | 13.7421    | 14.0863    | 14.4384    | 14.7987     | 6  |
| 7  | 12.5227 | 12.9159 | 13.3214 | 13.7396  | 14.1708  | 14.6153  | 15.0735  | 15.5458  | 16.0324   | 16.5339   | 17.0506   | 17.5828   | 18.1311   | 18.6956    | 19.2770    | 19.8756    | 20.4919    | 21.1262     | 7  |
| 8  | 15.9020 | 16.4991 | 17.1189 | 17.7623  | 18.4300  | 19.1229  | 19.8419  | 20.5876  | 21.3612   | 22.1634   | 22.9953   | 23.8577   | 24.7517   | 25.6782    | 26.6384    | 27.6333    | 28.6640    | 29.7316     | 8  |
| 9  | 19.9234 | 20.7989 | 21.7139 | 22.6700  | 23.6690  | 24.7125  | 25.8023  | 26.9404  | 28.1287   | 29.3692   | 30.6639   | 32.0150   | 33.4247   | 34.8953    | 36.4291    | 38.0287    | 39.6964    | 41.4350     | 9  |
| 10 | 24.7089 | 25.9587 | 27.2738 | 28.6574  | 30.1128  | 31.6434  | 33.2529  | 34.9449  | 36.7235   | 38.5926   | 40.5564   | 42.6195   | 44.7864   | 47.0618    | 49.4507    | 51.9584    | 54.5902    | 57.3516     | 10 |
| 11 | 30.4035 | 32.1504 | 34.0013 | 35.9620  | 38.0388  | 40.2379  | 42.5661  | 45.0306  | 47.6388   | 50.3985   | 53.3178   | 56.4053   | 59.6701   | 63.1215    | 66.7695    | 70.6243    | 74.6967    | 78.9982     | 11 |
| 12 | 37.1802 | 39.5805 | 42.1416 | 44.8737  | 47.7877  | 50.8950  | 54.2077  | 57.7386  | 61.5013   | 65.5100   | 69.7800   | 74.3270   | 79.1679   | 84.3204    | 89.8034    | 95.6365    | 101.8406   | 108.4375    | 12 |
| 14 | 54.8409 | 59.1959 | 63.9095 | 69.0100  | 74.5280  | 80.4961  | 86.9495  | 93.9258  | 101.4654  | 109.6117  | 118.4108  | 127.9125  | 138.1700  | 149.2399   | 161.1833   | 174.0649   | 187.9544   | 202.9260    | 14 |
| 16 | 79.8502 | 87.4421 | 95.7799 | 104.9345 | 114.9834 | 126.0108 | 138.1085 | 151.3766 | 165.9236  | 181.8677  | 199.3374  | 218.4722  | 239.4235  | 262.3557   | 287.4471   | 314.8910   | 344.8970   | 377.6919    | 16 |
| 18 | 115.27  | 128.12  | 142.44  | 158.40   | 176.19   | 195.99   | 218.04   | 242.59   | 269.89    | 300.25    | 334.01    | 371.52    | 413.18    | 459.45     | 510.80     | 567.76     | 630.92     | 700.94      | 18 |
| 20 | 165.42  | 186.69  | 210.76  | 237.99   | 268.79   | 303.60   | 342.94   | 387.39   | 437.57    | 494.21    | 558.11    | 630.17    | 711.38    | 802.86     | 905.88     | 1021.81    | 1152.21    | 1298.82     | 20 |
| 22 | 236.44  | 271.03  | 310.78  | 356.44   | 408.88   | 469.06   | 538.10   | 617.28   | 708.03    | 812.00    | 931.04    | 1067.28   | 1223.10   | 1401.23    | 1604.73    | 1837.10    | 2102.25    | 2404.65     | 22 |
| 24 | 337.01  | 392.48  | 457.22  | 532.75   | 620.82   | 723.46   | 843.03   | 982.25   | 1144.25   | 1332.66   | 1551.64   | 1806.00   | 2101.28   | 2443.82    | 2840.94    | 3301.03    | 3833.71    | 4450.00     | 24 |
| 30 | 966.71  | 1181.88 | 1445.15 | 1767.08  | 2160.49  | 2640.92  | 3227.17  | 3942.03  | 4812.98   | 5873.23   | 7162.82   | 8729.99   | 10632.75  | 12940.86   | 15738.08   | 19124.86   | 23221.57   | 28172.28    | 30 |
| 36 | 2755    | 3539    | 4546    | 5837     | 7492     | 9611     | 12322    | 15786    | 20206     | 25843     | 33021     | 42151     | 53750     | 68469      | 87122      | 110734     | 140585     | 178275      | 36 |
| 42 | 7833    | 10577   | 14276   | 19257    | 25955    | 34950    | 47016    | 63178    | 84796     | 113670    | 152181    | 203466    | 271661    | 362202     | 482228     | 641092     | 851038     | 1128056     | 42 |
| 48 | 22253   | 31594   | 44816   | 63506    | 89887    | 127062   | 179362   | 252817   | 355804    | 499939    | 701303    | 982106    | 1372965   | 1916011    | 2669097    | 3711514    | 5151724    | 7137809     | 48 |
| 54 | 63204   | 94348   | 140662  | 209411   | 311273   | 461908   | 684224   | 1011660  | 1492918   | 2198769   | 3231811   | 4740449   | 6938859   | 10135430   | 14773200   | 21487215   | 31185694   | 45164637    | 54 |
| 60 | 179495  | 281733  | 441467  | 690501   | 1077897  | 1679147  | 2610118  | 4048172  | 6264108   | 9670301   | 14893080  | 22881254  | 35068404  | 53614945   | 81768212   | 124396733  | 188780903  | 285780109   | 60 |
| 72 | 1447525 | 2511995 | 4348374 | 7507319  | 12925282 | 22189627 | 37982267 | 64819530 | 110281872 | 187050888 | 316272287 | 533089476 | 895718598 | 1500282583 | 2504979691 | 4169332825 | 6917724898 | 11441919865 | 72 |

**PRESENT VALUE** of an **ANNUITY** ( $A_{pv}$ ): current worth of a Future Value ( $A_{fv}$ ) discounted at interest rate (r) from some future time period (n)

$A_{pv} = A_{fv} \cdot ((1 - (1/(1+r)^n)) / r)$  or in spreadsheet format =  $A_{fv} * ((1 - (1/(1+B5)^A6)) / B5)$  (for 1% and 1 period)

| n  | 1%      | 2%      | 3%      | 4%      | 5%      | 6%      | 7%      | 8%      | 9%      | 10%    | 11%    | 12%    | 13%    | 14%    | 15%    | 16%    | 17%    | 18%    | n  |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 1  | 0.9901  | 0.9804  | 0.9709  | 0.9615  | 0.9524  | 0.9434  | 0.9346  | 0.9259  | 0.9174  | 0.9091 | 0.9009 | 0.8929 | 0.8850 | 0.8772 | 0.8696 | 0.8621 | 0.8547 | 0.8475 | 1  |
| 2  | 1.9704  | 1.9416  | 1.9135  | 1.8861  | 1.8594  | 1.8334  | 1.8080  | 1.7833  | 1.7591  | 1.7355 | 1.7125 | 1.6901 | 1.6681 | 1.6467 | 1.6257 | 1.6052 | 1.5852 | 1.5656 | 2  |
| 3  | 2.9410  | 2.8839  | 2.8286  | 2.7751  | 2.7232  | 2.6730  | 2.6243  | 2.5771  | 2.5313  | 2.4869 | 2.4437 | 2.4018 | 2.3612 | 2.3216 | 2.2832 | 2.2459 | 2.2096 | 2.1743 | 3  |
| 4  | 3.9020  | 3.8077  | 3.7171  | 3.6299  | 3.5460  | 3.4651  | 3.3872  | 3.3121  | 3.2397  | 3.1699 | 3.1024 | 3.0373 | 2.9745 | 2.9137 | 2.8550 | 2.7982 | 2.7432 | 2.6901 | 4  |
| 5  | 4.8534  | 4.7135  | 4.5797  | 4.4518  | 4.3295  | 4.2124  | 4.1002  | 3.9927  | 3.8897  | 3.7908 | 3.6959 | 3.6048 | 3.5172 | 3.4331 | 3.3522 | 3.2743 | 3.1993 | 3.1272 | 5  |
| 6  | 5.7955  | 5.6014  | 5.4172  | 5.2421  | 5.0757  | 4.9173  | 4.7665  | 4.6229  | 4.4859  | 4.3553 | 4.2305 | 4.1114 | 3.9975 | 3.8887 | 3.7845 | 3.6847 | 3.5892 | 3.4976 | 6  |
| 7  | 6.7282  | 6.4720  | 6.2303  | 6.0021  | 5.7864  | 5.5824  | 5.3893  | 5.2064  | 5.0330  | 4.8684 | 4.7122 | 4.5638 | 4.4226 | 4.2883 | 4.1604 | 4.0386 | 3.9224 | 3.8115 | 7  |
| 8  | 7.6517  | 7.3255  | 7.0197  | 6.7327  | 6.4632  | 6.2098  | 5.9713  | 5.7466  | 5.5348  | 5.3349 | 5.1461 | 4.9676 | 4.7988 | 4.6389 | 4.4873 | 4.3436 | 4.2072 | 4.0776 | 8  |
| 9  | 8.5660  | 8.1622  | 7.7861  | 7.4353  | 7.1078  | 6.8017  | 6.5152  | 6.2469  | 5.9952  | 5.7590 | 5.5370 | 5.3282 | 5.1317 | 4.9464 | 4.7716 | 4.6065 | 4.4506 | 4.3030 | 9  |
| 10 | 9.4713  | 8.9826  | 8.5302  | 8.1109  | 7.7217  | 7.3601  | 7.0236  | 6.7101  | 6.4177  | 6.1446 | 5.8892 | 5.6502 | 5.4262 | 5.2161 | 5.0188 | 4.8332 | 4.6586 | 4.4941 | 10 |
| 11 | 10.3676 | 9.7868  | 9.2526  | 8.7605  | 8.3064  | 7.8869  | 7.4987  | 7.1390  | 6.8052  | 6.4951 | 6.2065 | 5.9377 | 5.6869 | 5.4527 | 5.2337 | 5.0286 | 4.8364 | 4.6560 | 11 |
| 12 | 11.2551 | 10.5753 | 9.9540  | 9.3851  | 8.8633  | 8.3838  | 7.9427  | 7.5361  | 7.1607  | 6.8137 | 6.4924 | 6.1944 | 5.9176 | 5.6603 | 5.4206 | 5.1971 | 4.9884 | 4.7932 | 12 |
| 14 | 13.0037 | 12.1062 | 11.2961 | 10.5631 | 9.8986  | 9.2950  | 8.7455  | 8.2442  | 7.7862  | 7.3667 | 6.9819 | 6.6282 | 6.3025 | 6.0021 | 5.7245 | 5.4675 | 5.2293 | 5.0081 | 14 |
| 16 | 14.7179 | 13.5777 | 12.5611 | 11.6523 | 10.8378 | 10.1059 | 9.4466  | 8.8514  | 8.3126  | 7.8237 | 7.3792 | 6.9740 | 6.6039 | 6.2651 | 5.9542 | 5.6685 | 5.4053 | 5.1624 | 16 |
| 18 | 16.3983 | 14.9920 | 13.7535 | 12.6593 | 11.6896 | 10.8276 | 10.0591 | 9.3719  | 8.7556  | 8.2014 | 7.7016 | 7.2497 | 6.8399 | 6.4674 | 6.1280 | 5.8178 | 5.5339 | 5.2732 | 18 |
| 20 | 18.0456 | 16.3514 | 14.8775 | 13.5903 | 12.4622 | 11.4699 | 10.5940 | 9.8181  | 9.1285  | 8.5136 | 7.9633 | 7.4694 | 7.0248 | 6.6231 | 6.2593 | 5.9288 | 5.6278 | 5.3527 | 20 |
| 22 | 19.6604 | 17.6580 | 15.9369 | 14.4511 | 13.1630 | 12.0416 | 11.0612 | 10.2007 | 9.4424  | 8.7715 | 8.1757 | 7.6446 | 7.1695 | 6.7429 | 6.3587 | 6.0113 | 5.6964 | 5.4099 | 22 |
| 24 | 21.2434 | 18.9139 | 16.9355 | 15.2470 | 13.7986 | 12.5504 | 11.4693 | 10.5288 | 9.7066  | 8.9847 | 8.3481 | 7.7843 | 7.2829 | 6.8351 | 6.4338 | 6.0726 | 5.7465 | 5.4509 | 24 |
| 30 | 25.8077 | 22.3965 | 19.6004 | 17.2920 | 15.3725 | 13.7648 | 12.4090 | 11.2578 | 10.2737 | 9.4269 | 8.6938 | 8.0552 | 7.4957 | 7.0027 | 6.5660 | 6.1772 | 5.8294 | 5.5168 | 30 |
| 36 | 30.1075 | 25.4888 | 21.8323 | 18.9083 | 16.5469 | 14.6210 | 13.0352 | 11.7172 | 10.6118 | 9.6765 | 8.8786 | 8.1924 | 7.5979 | 7.0790 | 6.6231 | 6.2201 | 5.8617 | 5.5412 | 36 |
| 42 | 34.1581 | 28.2348 | 23.7014 | 20.1856 | 17.4232 | 15.2245 | 13.4524 | 12.0067 | 10.8134 | 9.8174 | 8.9774 | 8.2619 | 7.6469 | 7.1138 | 6.6478 | 6.2377 | 5.8743 | 5.5502 | 42 |
| 48 | 37.9740 | 30.6731 | 25.2667 | 21.1951 | 18.0772 | 15.6500 | 13.7305 | 12.1891 | 10.9336 | 9.9869 | 9.0302 | 8.2972 | 7.6705 | 7.1296 | 6.6585 | 6.2450 | 5.8792 | 5.5536 | 48 |
| 54 | 41.5687 | 32.8383 | 26.5777 | 21.9930 | 18.5651 | 15.9500 | 13.9157 | 12.3041 | 11.0053 | 9.9418 | 9.0585 | 8.3150 | 7.6818 | 7.1368 | 6.6631 | 6.2479 | 5.8811 | 5.5548 | 54 |
| 60 | 44.9550 | 34.7609 | 27.6756 | 22.6235 | 18.9293 | 16.1614 | 14.0392 | 12.3766 | 11.0480 | 9.9672 | 9.0736 | 8.3240 | 7.6873 | 7.1401 | 6.6651 | 6.2492 | 5.8819 | 5.5553 | 60 |
| 72 | 51.1504 | 37.9841 | 29.3651 | 23.5156 | 19.4038 | 16.4156 | 14.1763 | 12.4510 | 11.0887 | 9.9895 | 9.0860 | 8.3310 | 7.6911 | 7.1423 | 6.6664 | 6.2499 | 5.8823 | 5.5555 | 72 |
| n  | 19%     | 20%     | 21%     | 22%     | 23%     | 24%     | 25%     | 26%     | 27%     | 28%    | 29%    | 30%    | 31%    | 32%    | 33%    | 34%    | 35%    | 36%    | n  |
| 1  | 0.8403  | 0.8333  | 0.8264  | 0.8197  | 0.8130  | 0.8065  | 0.8000  | 0.7937  | 0.7874  | 0.7813 | 0.7752 | 0.7692 | 0.7634 | 0.7576 | 0.7519 | 0.7463 | 0.7407 | 0.7353 | 1  |
| 2  | 1.5465  | 1.5278  | 1.5095  | 1.4915  | 1.4740  | 1.4568  | 1.4400  | 1.4235  | 1.4074  | 1.3916 | 1.3761 | 1.3609 | 1.3461 | 1.3315 | 1.3172 | 1.3032 | 1.2894 | 1.2760 | 2  |
| 3  | 2.1399  | 2.1065  | 2.0739  | 2.0422  | 2.0114  | 1.9813  | 1.9520  | 1.9234  | 1.8956  | 1.8684 | 1.8420 | 1.8161 | 1.7909 | 1.7663 | 1.7423 | 1.7188 | 1.6959 | 1.6735 | 3  |
| 4  | 2.6386  | 2.5887  | 2.5404  | 2.4936  | 2.4483  | 2.4043  | 2.3616  | 2.3202  | 2.2800  | 2.2410 | 2.2031 | 2.1662 | 2.1305 | 2.0957 | 2.0618 | 2.0290 | 1.9969 | 1.9658 | 4  |
| 5  | 3.0576  | 2.9906  | 2.9260  | 2.8636  | 2.8035  | 2.7454  | 2.6893  | 2.6351  | 2.5827  | 2.5320 | 2.4830 | 2.4356 | 2.3897 | 2.3452 | 2.3021 | 2.2604 | 2.2200 | 2.1807 | 5  |
| 6  | 3.4098  | 3.3255  | 3.2446  | 3.1669  | 3.0923  | 3.0205  | 2.9514  | 2.8850  | 2.8210  | 2.7594 | 2.7000 | 2.6427 | 2.5875 | 2.5342 | 2.4828 | 2.4331 | 2.3852 | 2.3388 | 6  |
| 7  | 3.7057  | 3.6046  | 3.5079  | 3.4155  | 3.3270  | 3.2423  | 3.1611  | 3.0833  | 3.0087  | 2.9370 | 2.8682 | 2.8021 | 2.7386 | 2.6775 | 2.6187 | 2.5620 | 2.5075 | 2.4550 | 7  |
| 8  | 3.9544  | 3.8372  | 3.7256  | 3.6193  | 3.5179  | 3.4212  | 3.3289  | 3.2407  | 3.1564  | 3.0758 | 2.9986 | 2.9247 | 2.8539 | 2.7860 | 2.7208 | 2.6582 | 2.5982 | 2.5404 | 8  |
| 9  | 4.1633  | 4.0310  | 3.9054  | 3.7863  | 3.6731  | 3.5655  | 3.4631  | 3.3657  | 3.2728  | 3.1842 | 3.0997 | 3.0190 | 2.9419 | 2.8681 | 2.7976 | 2.7300 | 2.6653 | 2.6033 | 9  |
| 10 | 4.3389  | 4.1925  | 4.0541  | 3.9232  | 3.7993  | 3.6819  | 3.5705  | 3.4648  | 3.3644  | 3.2689 | 3.1781 | 3.0915 | 3.0091 | 2.9304 | 2.8553 | 2.7836 | 2.7150 | 2.6495 | 10 |
| 11 | 4.4865  | 4.3271  | 4.1769  | 4.0354  | 3.9018  | 3.7757  | 3.6564  | 3.5435  | 3.4365  | 3.3351 | 3.2388 | 3.1473 | 3.0604 | 2.9776 | 2.8987 | 2.8236 | 2.7519 | 2.6834 | 11 |
| 12 | 4.6105  | 4.4392  | 4.2784  | 4.1274  | 3.9852  | 3.8514  | 3.7251  | 3.6059  | 3.4933  | 3.3868 | 3.2859 | 3.1903 | 3.0995 | 3.0133 | 2.9314 | 2.8534 | 2.7792 | 2.7084 | 12 |
| 14 | 4.8023  | 4.6106  | 4.4317  | 4.2646  | 4.1082  | 3.9616  | 3.8241  | 3.6949  | 3.5733  | 3.4587 | 3.3507 | 3.2487 | 3.1522 | 3.0609 | 2.9744 | 2.8923 | 2.8144 | 2.7403 | 14 |
| 16 | 4.9377  | 4.7296  | 4.5364  | 4.3567  | 4.1894  | 4.0333  | 3.8874  | 3.7509  | 3.6228  | 3.5026 | 3.3896 | 3.2832 | 3.1829 | 3.0882 | 2.9987 | 2.9140 | 2.8337 | 2.7575 | 16 |
| 18 | 5.0333  | 4.8122  | 4.6079  | 4.4187  | 4.2431  | 4.0799  | 3.9279  | 3.7861  | 3.6536  | 3.5294 | 3.4130 | 3.3037 | 3.2008 | 3.1039 | 3.0124 | 2.9260 | 2.8443 | 2.7668 | 18 |
| 20 | 5.1009  | 4.8696  | 4.6567  | 4.4603  | 4.2786  | 4.1103  | 3.9539  | 3.8083  | 3.6726  | 3.5458 | 3.4271 | 3.3158 | 3.2112 | 3.1129 | 3.0202 | 2.9327 | 2.8501 | 2.7718 | 20 |
| 22 | 5.1486  | 4.9094  | 4.6900  | 4.4882  | 4.3021  | 4.1300  | 3.9705  | 3.8223  | 3.6844  | 3.5558 | 3.4356 | 3.3230 | 3.2173 | 3.1180 | 3.0246 | 2.9365 | 2.8533 | 2.7746 | 22 |
| 24 | 5.1822  | 4.9371  | 4.7128  | 4.5070  | 4.3176  | 4.1428  | 3.9811  | 3.8312  | 3.6918  | 3.5619 | 3.4406 | 3.3272 | 3.2209 | 3.1210 | 3.0271 | 2.9386 | 2.8550 | 2.7760 | 24 |
| 30 | 5.2347  | 4.9789  | 4.7463  | 4.5338  | 4.3391  | 4.1601  | 3.9950  | 3.8424  | 3.7009  | 3.5693 | 3.4466 | 3.3321 | 3.2248 | 3.1242 | 3.0297 | 2.9407 | 2.8568 | 2.7775 | 30 |
| 36 | 5.2531  | 4.9929  | 4.7569  | 4.5419  | 4.3453  | 4.1649  | 3.9987  | 3.8452  | 3.7030  | 3.5709 | 3.4479 | 3.3331 | 3.2256 | 3.1249 | 3.0302 | 2.9411 | 2.8571 | 2.7777 | 36 |
| 42 | 5.2596  | 4.9976  | 4.7603  | 4.5444  | 4.3471  | 4.1662  | 3.9997  | 3.8459  | 3.7035  | 3.5713 | 3.4482 | 3.3333 | 3.2258 | 3.1250 | 3.0303 | 2.9412 | 2.8571 | 2.7778 | 42 |
| 48 | 5.2619  | 4.9992  | 4.7614  | 4.5451  | 4.3476  | 4.1665  | 3.9999  | 3.8461  | 3.7037  | 3.5714 | 3.4483 | 3.3333 | 3.2258 | 3.1250 | 3.0303 | 2.9412 | 2.8571 | 2.7778 | 48 |
| 54 | 5.2627  | 4.9997  | 4.7617  | 4.5454  | 4.3478  | 4.1666  | 4.0000  | 3.8461  | 3.7037  | 3.5714 | 3.4483 | 3.3333 | 3.2258 | 3.1250 | 3.0303 | 2.9412 | 2.8571 | 2.7778 | 54 |
| 60 | 5.2630  | 4.9999  | 4.7619  | 4.5454  | 4.3478  | 4.1667  | 4.0000  | 3.8462  | 3.7037  | 3.5714 | 3.4483 | 3.3333 | 3.2258 | 3.1250 | 3.0303 | 2.9412 | 2.8571 | 2.7778 | 60 |
| 72 | 5.2631  | 5.0000  | 4.7619  | 4.5455  | 4.3478  | 4.1667  | 4.0000  | 3.8462  | 3.7037  | 3.5714 | 3.4483 | 3.3333 | 3.2258 | 3.1250 | 3.0303 | 2.9412 | 2.8571 | 2.7778 | 72 |