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1 Aufzinsungsfaktoren

1. Konstanter Zinsfuß: $i_1 = i_2 = \dots = i_n$

a) Problemlage:

Wir verfügen über ein Anfangskapital K_0 im Zeitpunkt Null. Dieser Betrag wird zu p (%) pro Zeiteinheit (z.B. pro Jahr) verzinst. Die Zinsen werden am Ende jeder Zeiteinheit gutgeschrieben und zum gleichen Zinsfuß p (%) – $i = 0,01 p$ – verzinst.

Über welches Endkapital K_n verfügen wir nach n Zeiteinheiten?

Bezeichnungen:

K_0 = Anfangskapital

$u = 1 + i$

K_n = Endkapital

n = Anzahl Zeiteinheiten (z.B. Jahre).

p = Zinsfuß in Prozent; $i = 0,01 p$

Gegeben: K_0 ; p (%) bzw. i ; n

Gesucht: K_n

b) Lösung des Problems:

$$K_n = K_0 \left(1 + \frac{p}{100}\right)^n = K_0 (1 + i)^n = K_0 u^n \quad (1)$$

c) Beispiel:

$K_0 = 1000$ Fr.; $n = 10$ Jahre

$p = 3\%$; $i = 0,03$;

$(1 + i)^n = u^n = 1,3439$

$K_n = K_0 (1 + i)^n = 1000 \cdot 1,3439 = \text{Fr. } 1344$

2. Variabler Zinsfuß: $i_1 \neq i_2 \neq \dots \neq i_n$

Der anrechenbare Zinsfuß kann von Zeiteinheit zu Zeiteinheit variieren. Für diesen Fall gilt:

$$K_n = K_0 (1 + i_1) \cdot (1 + i_2) \dots (1 + i_n) \quad (2)$$

Die Grösse $1 + i$ kann somit im gleichen Ansatz verschiedene Werte annehmen.

3. Unterjährige Aufzinsung

Die Zinsen werden t -mal in gleichen zeitlichen Abständen gutgeschrieben.

Bezeichnungen:

K_0 = Anfangskapital

K_n = Endkapital

$\frac{i}{t}$ Zinsfuß für $\frac{1}{t}$ Zeiteinheit

Ausgangspunkt für die Lösung bildet Ansatz (1): $K_n = K_0 (1 + i)^n$

D. f. für die unterjährige Aufzinsung:

$$K_n = K_0 \left\{ 1 + \frac{i}{t} \right\}^{tn} \quad (1a)$$

wobei $\left(1 + \frac{i}{t}\right)^{tn}$ den Aufzinsungsfaktor definiert analog zu $(1 + i)^n$.

Tabelle 1: $(1 + i)^n$

n	p = 2%	p = 2½%	p = 3%	p = 3¼%	p = 3½%
1	1,020 000 000	1,025 000 000	1,030 000 000	1,032 500 000	1,035 000 000
2	1,040 400 000	1,050 625 000	1,060 900 000	1,066 056 250	1,071 225 000
3	1,061 208 000	1,076 890 625	1,092 727 000	1,100 703 078	1,108 717 875
4	1,082 432 160	1,103 812 891	1,125 508 810	1,136 475 928	1,147 523 001
5	1,104 080 803	1,131 408 213	1,159 274 074	1,173 411 396	1,187 686 306
6	1,126 162 419	1,159 693 418	1,194 052 297	1,211 547 266	1,229 255 326
7	1,148 685 668	1,188 685 754	1,229 873 865	1,250 922 552	1,272 279 263
8	1,171 659 381	1,218 402 898	1,266 770 081	1,291 577 535	1,316 809 037
9	1,195 092 569	1,248 862 970	1,304 773 184	1,333 553 805	1,362 897 353
10	1,218 994 420	1,280 084 544	1,343 916 379	1,376 894 304	1,410 598 761
11	1,243 374 308	1,312 086 658	1,384 233 871	1,421 643 369	1,459 969 717
12	1,268 241 795	1,344 888 824	1,425 760 887	1,467 846 778	1,511 068 657
13	1,293 606 630	1,378 511 045	1,468 533 713	1,515 551 799	1,563 956 060
14	1,319 478 763	1,412 973 821	1,512 589 725	1,564 807 232	1,618 694 522
15	1,345 868 338	1,448 298 166	1,557 967 417	1,615 663 467	1,675 348 831
16	1,372 785 705	1,484 505 621	1,604 706 439	1,668 172 530	1,733 986 040
17	1,400 241 419	1,521 618 261	1,652 847 632	1,722 388 137	1,794 675 551
18	1,428 246 248	1,559 658 718	1,702 433 061	1,778 365 751	1,857 489 196
19	1,456 811 173	1,598 650 186	1,753 506 053	1,836 162 638	1,922 501 317
20	1,485 947 396	1,638 616 440	1,806 111 235	1,895 837 924	1,989 788 863
21	1,515 666 344	1,679 581 851	1,860 294 572	1,957 452 657	2,059 431 474
22	1,545 979 671	1,721 571 398	1,916 103 409	2,021 069 868	2,131 511 575
23	1,576 899 264	1,764 610 683	1,973 586 511	2,086 754 639	2,206 114 480
24	1,608 437 249	1,808 725 950	2,032 794 106	2,154 574 164	2,283 328 487
25	1,640 605 994	1,853 944 098	2,093 777 930	2,224 597 825	2,363 244 984
26	1,673 418 114	1,900 292 701	2,156 591 268	2,296 897 254	2,445 958 559
27	1,706 886 477	1,947 800 018	2,221 289 006	2,371 546 415	2,531 567 108
28	1,741 024 206	1,996 495 019	2,287 927 676	2,448 621 673	2,620 171 957
29	1,775 844 690	2,046 407 394	2,356 565 506	2,528 201 878	2,711 877 976
30	1,811 361 584	2,097 567 579	2,427 262 471	2,610 368 439	2,806 793 705
35	1,999 889 553	2,373 205 186	2,813 862 454	3,063 036 073	3,333 590 446
40	2,208 039 664	2,685 063 838	3,262 037 792	3,594 201 434	3,959 259 721
45	2,437 854 205	3,037 903 279	3,781 595 842	4,217 476 922	4,702 358 551
50	2,691 588 029	3,437 108 720	4,383 906 019	4,948 835 482	5,584 926 856
60	3,281 030 788	4,399 789 749	5,891 603 104	6,814 023 385	7,878 090 901
70	3,999 558 223	5,632 102 855	7,917 821 912	9,382 189 986	11,112 825 261
80	4,875 439 156	7,209 567 816	10,640 890 556	12,918 283 949	15,675 737 540
90	5,943 133 126	9,228 856 332	14,300 467 110	17,787 111 585	22,112 175 945
100	7,244 646 118	11,813 716 351	19,218 631 981	24,490 972 624	31,191 407 983

Tabelle 1: $(1 + i)^n$

n	p = 3¾%	p = 4%	p = 4¼%	p = 4½%	p = 4¾%
1	1,037 500 000	1,040 000 000	1,042 500 000	1,045 000 000	1,047 500 000
2	1,076 406 250	1,081 600 000	1,086 806 250	1,092 025 000	1,097 256 250
3	1,116 771 484	1,124 864 000	1,132 995 516	1,141 166 125	1,149 375 922
4	1,158 650 415	1,169 858 560	1,181 147 825	1,192 518 601	1,203 971 278
5	1,202 099 806	1,216 652 902	1,231 346 608	1,246 181 938	1,261 159 914
6	1,247 178 548	1,265 319 018	1,283 678 838	1,302 260 125	1,321 065 010
7	1,293 947 744	1,315 931 779	1,338 235 189	1,360 861 830	1,383 815 598
8	1,342 470 784	1,368 569 050	1,395 110 185	1,422 100 613	1,449 546 839
9	1,392 813 439	1,423 311 812	1,454 402 367	1,486 095 140	1,518 400 313
10	1,445 043 943	1,480 244 285	1,516 214 468	1,552 969 422	1,590 524 328
11	1,499 233 090	1,539 454 056	1,580 653 583	1,622 853 046	1,666 074 234
12	1,555 454 331	1,601 032 219	1,647 831 360	1,695 881 433	1,745 212 760
13	1,613 783 869	1,665 073 507	1,717 864 193	1,772 196 097	1,828 110 366
14	1,674 300 764	1,731 676 448	1,790 873 421	1,851 944 922	1,914 945 609
15	1,737 087 043	1,800 943 506	1,866 985 542	1,935 282 443	2,005 905 525
16	1,802 227 807	1,872 981 246	1,946 332 427	2,022 370 153	2,101 186 037
17	1,869 811 349	1,947 900 496	2,029 051 555	2,113 376 810	2,200 992 374
18	1,939 929 275	2,025 816 515	2,115 286 246	2,208 478 766	2,305 539 512
19	2,012 676 623	2,106 849 176	2,205 185 912	2,307 860 311	2,415 052 639
20	2,088 151 996	2,191 123 143	2,298 906 313	2,411 714 025	2,529 767 639
21	2,166 457 696	2,278 768 069	2,396 609 831	2,520 241 156	2,649 931 602
22	2,247 699 860	2,369 918 792	2,498 465 749	2,633 652 008	2,775 803 353
23	2,331 988 604	2,464 715 543	2,604 650 544	2,752 166 348	2,907 654 012
24	2,419 438 177	2,563 304 165	2,715 348 192	2,876 013 834	3,045 767 578
25	2,510 167 109	2,665 836 331	2,830 750 490	3,005 434 457	3,190 441 538
26	2,604 298 375	2,772 469 785	2,951 057 386	3,140 679 007	3,341 987 511
27	2,701 959 564	2,883 368 576	3,076 477 325	3,282 009 562	3,500 731 918
28	2,803 283 048	2,998 703 319	3,207 227 611	3,429 699 993	3,667 016 684
29	2,908 406 162	3,118 651 452	3,343 534 784	3,584 036 492	3,841 199 976
30	3,017 471 393	3,243 397 510	3,485 635 013	3,745 318 135	4,023 656 975
35	3,627 301 775	3,946 088 994	4,292 024 848	4,667 347 810	5,074 474 884
40	4,360 378 759	4,801 020 628	5,284 970 237	5,816 364 538	6,399 724 308
45	5,241 610 459	5,841 175 681	6,507 630 172	7,248 248 430	8,071 075 757
50	6,300 938 913	7,106 683 346	8,013 148 336	9,032 636 273	10,178 917 207
60	9,105 133 609	10,519 627 408	12,149 651 442	14,027 407 929	16,189 815 454
70	13,157 318 169	15,571 618 350	18,421 477 298	21,784 135 580	25,750 295 351
80	19,012 902 922	23,049 799 070	27,930 910 402	33,830 096 434	40,956 471 219
90	27,474 480 199	34,119 333 342	42,349 250 457	52,537 105 297	65,142 263 878
100	39,701 831 188	50,504 948 184	64,210 546 255	81,588 518 032	103,610 355 502

Tabelle 1: $(1 + i)^n$

n	p = 5%	p = 5½%	p = 6%	p = 6½%
1	1,050 000 000	1,055 000 000	1,060 000 000	1,065 000 000
2	1,102 500 000	1,113 025 000	1,123 600 000	1,134 225 000
3	1,157 625 000	1,174 241 375	1,191 016 000	1,207 949 625
4	1,215 506 250	1,238 824 651	1,262 476 960	1,286 466 351
5	1,276 281 563	1,306 960 006	1,338 225 578	1,370 086 663
6	1,340 095 641	1,378 842 807	1,418 519 112	1,459 142 297
7	1,407 100 423	1,454 679 161	1,503 630 259	1,553 986 546
8	1,477 455 444	1,534 686 515	1,593 848 075	1,654 995 671
9	1,551 328 216	1,619 094 273	1,689 478 959	1,762 570 390
10	1,628 894 627	1,708 144 458	1,790 847 697	1,877 137 465
11	1,710 339 358	1,802 092 404	1,898 298 558	1,999 151 401
12	1,795 856 326	1,901 207 486	2,012 196 472	2,129 096 242
13	1,885 649 142	2,005 773 897	2,132 928 260	2,267 487 497
14	1,979 931 599	2,116 091 462	2,260 903 956	2,414 874 185
15	2,078 928 179	2,232 476 492	2,396 558 193	2,571 841 007
16	2,182 874 588	2,355 262 699	2,540 351 685	2,739 010 672
17	2,292 018 318	2,484 802 148	2,692 772 786	2,917 046 366
18	2,406 619 234	2,621 466 266	2,854 339 153	3,106 654 379
19	2,526 950 195	2,765 646 911	3,025 599 502	3,308 586 914
20	2,653 297 705	2,917 757 491	3,207 135 472	3,523 645 064
21	2,785 962 590	3,078 234 153	3,399 563 601	3,752 681 993
22	2,925 260 720	3,247 537 031	3,603 537 417	3,996 606 322
23	3,071 523 756	3,426 151 568	3,819 749 662	4,256 385 733
24	3,225 099 944	3,614 589 904	4,048 934 641	4,533 050 806
25	3,386 354 941	3,813 392 349	4,291 870 720	4,827 699 108
26	3,555 672 688	4,023 128 928	4,549 382 963	5,141 499 550
27	3,733 456 322	4,244 401 019	4,822 345 941	5,475 697 021
28	3,920 129 138	4,477 843 075	5,111 686 697	5,831 617 327
29	4,116 135 595	4,724 124 444	5,418 387 899	6,210 672 454
30	4,321 942 375	4,983 951 288	5,743 491 173	6,614 366 163
35	5,516 015 368	6,513 825 008	7,686 086 792	9,062 254 867
40	7,039 988 712	8,513 308 774	10,285 717 937	12,416 074 534
45	8,985 007 793	11,126 554 090	13,764 610 827	17,011 098 131
50	11,467 399 786	14,541 961 205	18,420 154 275	23,306 678 679
60	18,679 185 894	24,839 770 445	32,987 690 853	43,749 839 739
70	30,426 425 536	42,429 916 233	59,075 930 179	82,124 463 273
80	49,561 441 067	72,476 426 281	105,795 993 482	154,158 906 825
90	80,730 365 049	123,800 205 913	189,464 511 231	289,377 459 607
100	131,501 257 846	211,468 635 674	339,302 083 514	543,201 271 032

Tabelle 1: $(1 + i)^n$

n	p = 7%	p = 8%	p = 9%	p = 10%
1	1,070 000 000	1,080 000 000	1,090 000 000	1,100 000 000
2	1,144 900 000	1,166 400 000	1,188 100 000	1,210 000 000
3	1,225 043 000	1,259 712 000	1,295 029 000	1,331 000 000
4	1,310 796 010	1,360 488 960	1,411 581 610	1,464 100 000
5	1,402 551 731	1,469 328 077	1,538 623 955	1,610 510 000
6	1,500 730 352	1,586 874 323	1,677 100 111	1,771 561 000
7	1,605 781 476	1,713 824 269	1,828 039 121	1,948 717 100
8	1,718 186 180	1,850 930 210	1,992 562 642	2,143 588 810
9	1,838 459 212	1,999 004 627	2,171 893 279	2,357 947 691
10	1,967 151 357	2,158 924 997	2,367 363 675	2,593 742 460
11	2,104 851 952	2,331 638 997	2,580 426 405	2,853 116 706
12	2,252 191 589	2,518 170 117	2,812 664 782	3,138 428 377
13	2,409 845 000	2,719 623 726	3,065 804 612	3,452 271 214
14	2,578 534 150	2,937 193 624	3,341 727 027	3,797 498 336
15	2,759 031 541	3,172 169 114	3,642 482 460	4,177 248 169
16	2,952 163 749	3,425 942 643	3,970 305 881	4,594 972 986
17	3,158 815 211	3,700 018 055	4,327 633 410	5,054 470 285
18	3,379 932 276	3,996 019 499	4,717 120 417	5,559 917 313
19	3,616 527 535	4,315 701 059	5,141 661 255	6,115 909 045
20	3,869 684 462	4,660 957 144	5,604 410 768	6,727 499 949
21	4,140 562 375	5,033 833 715	6,108 807 737	7,400 249 944
22	4,430 401 741	5,436 540 413	6,658 600 433	8,140 274 939
23	4,740 529 863	5,871 463 646	7,257 874 472	8,954 302 433
24	5,072 366 953	6,341 180 737	7,911 083 175	9,849 732 676
25	5,427 432 640	6,848 475 196	8,623 080 660	10,834 705 943
26	5,807 352 925	7,396 353 212	9,399 157 920	11,918 176 538
27	6,213 867 630	7,988 061 469	10,245 082 133	13,109 994 192
28	6,648 838 364	8,627 106 386	11,167 139 525	14,420 993 611
29	7,114 257 049	9,317 274 897	12,172 182 082	15,863 092 972
30	7,612 255 043	10,062 656 889	13,267 678 469	17,449 402 269
35	10,676 581 485	14,785 344 294	20,413 967 919	28,102 436 848
40	14,974 457 839	21,724 521 497	31,409 420 054	45,259 255 568
45	21,002 451 759	31,920 449 390	48,327 286 105	72,890 483 685
50	29,457 025 063	46,901 612 513	74,357 520 076	117,390 852 880
60	57,946 426 835	101,257 063 667	176,031 291 960	304,481 639 541
70	113,989 392 198	218,606 405 902	416,730 086 178	789,746 956 799
80	224,234 387 578	471,954 834 265	986,551 668 128	2 048,400 214 585
90	441,102 979 875	1 018,915 089 278	2 335,526 582 234	5 313,022 611 848
100	867,716 325 566	2 199,761 256 341	5 529,040 791 826	13 780,612 339 822

Tabelle 1: $(1+i)^n$

n	p = 11%	p = 12%	p = 13%	p = 14%
1	1,110 000 000	1,120 000 000	1,130 000 000	1,140 000 000
2	1,232 100 000	1,254 400 000	1,276 900 000	1,299 600 000
3	1,367 631 000	1,404 928 000	1,442 897 000	1,481 544 000
4	1,518 070 410	1,573 519 360	1,630 473 610	1,688 960 160
5	1,685 058 155	1,762 341 683	1,842 435 179	1,925 414 582
6	1,870 414 552	1,973 822 685	2,081 951 753	2,194 972 624
7	2,076 160 153	2,210 681 407	2,352 605 480	2,502 268 791
8	2,304 537 770	2,475 963 176	2,658 444 193	2,852 586 422
9	2,558 036 924	2,773 078 757	3,004 041 938	3,251 948 521
10	2,839 420 986	3,105 848 208	3,394 567 390	3,707 221 314
11	3,151 757 295	3,478 549 993	3,835 861 151	4,226 232 298
12	3,498 450 597	3,895 975 993	4,334 523 100	4,817 904 820
13	3,883 280 163	4,363 493 112	4,898 011 103	5,492 411 495
14	4,310 440 980	4,887 112 285	5,534 752 547	6,261 349 104
15	4,784 589 488	5,473 565 759	6,254 270 378	7,137 937 978
16	5,310 894 332	6,130 393 650	7,067 325 527	8,137 249 295
17	5,895 092 709	6,866 040 888	7,986 077 845	9,276 464 197
18	6,543 552 907	7,689 965 795	9,024 267 965	10,575 169 184
19	7,263 343 726	8,612 761 690	10,197 422 801	12,055 692 870
20	8,062 311 536	9,646 293 093	11,523 087 765	13,743 489 872
21	8,949 165 805	10,803 848 264	13,021 089 174	15,667 578 454
22	9,933 574 044	12,100 310 056	14,713 830 767	17,861 039 437
23	11,026 267 188	13,552 347 263	16,626 628 766	20,361 584 959
24	12,239 156 579	15,178 628 935	18,788 090 506	23,212 206 853
25	13,585 463 803	17,000 064 407	21,230 542 272	26,461 915 812
26	15,079 864 821	19,040 072 135	23,990 512 767	30,166 584 026
27	16,738 649 952	21,324 880 792	27,109 279 427	34,389 905 790
28	18,579 901 446	23,883 866 487	30,633 485 752	39,204 492 600
29	20,623 690 605	26,749 930 465	34,615 838 900	44,693 121 564
30	22,892 296 572	29,959 922 121	39,115 897 957	50,950 158 583
35	38,574 851 027	52,799 619 579	72,068 506 467	98,100 178 312
40	65,000 867 306	93,050 970 441	132,781 551 634	188,883 513 858
45	109,530 241 542	163,987 603 871	244,641 401 892	363,679 071 957
50	184,564 826 740	289,002 189 830	450,735 925 158	700,232 988 459
60	524,057 242 336	897,596 933 491	1 530,053 473 009	2 595,918 659 665
70	1 488,019 131 791	2 787,799 827 698	5 193,869 624 314	9 623,644 984 827
80	4 225,112 750 480	8 658,483 100 080	17 630,940 454 204	35 676,981 807 262
90	11 996,873 812 222	26 891,934 223 361	59 849,415 519 503	132 262,467 379 304
100	34 064,175 269 644	83 522,265 726 535	203 162,874 228 410	490 326,238 126 466

Tabelle 1: $(1 + i)^n$

n	p = 15%	p = 16%	p = 17%	n
1	1,150 000 000	1,160 000 000	1,170 000 000	1
2	1,322 500 000	1,345 600 000	1,368 900 000	2
3	1,520 875 000	1,560 896 000	1,601 613 000	3
4	1,749 006 250	1,810 639 360	1,873 887 210	4
5	2,011 357 188	2,100 341 658	2,192 448 036	5
6	2,313 060 766	2,436 396 323	2,565 164 202	6
7	2,660 019 880	2,826 219 734	3,001 242 116	7
8	3,059 022 863	3,278 414 892	3,511 453 276	8
9	3,517 876 292	3,802 961 275	4,108 400 333	9
10	4,045 557 736	4,411 435 079	4,806 828 389	10
11	4,652 391 396	5,117 264 691	5,623 989 215	11
12	5,350 250 105	5,936 027 042	6,580 067 382	12
13	6,152 787 621	6,885 791 369	7,698 678 837	13
14	7,075 705 764	7,987 517 987	9,007 454 239	14
15	8,137 061 629	9,265 520 865	10,538 721 460	15
16	9,357 620 874	10,748 004 204	12,330 304 108	16
17	10,761 264 005	12,467 684 877	14,426 455 807	17
18	12,375 453 605	14,462 514 457	16,878 953 294	18
19	14,231 771 646	16,776 516 770	19,748 375 354	19
20	16,366 537 393	19,460 759 453	23,105 599 164	20
21	18,821 518 002	22,574 480 966	27,033 551 021	21
22	21,644 745 702	26,186 397 920	31,629 254 695	22
23	24,891 457 557	30,376 221 587	37,006 227 993	23
24	28,625 176 191	35,236 417 041	43,297 286 752	24
25	32,918 952 620	40,874 243 768	50,657 825 500	25
26	37,856 795 513	47,414 122 771	59,269 655 835	26
27	43,535 314 840	55,000 382 414	69,345 497 327	27
28	50,065 612 066	63,800 443 600	81,134 231 873	28
29	57,575 453 875	74,008 514 577	94,927 051 291	29
30	66,211 771 957	85,849 876 909	111,064 650 010	30
35	133,175 523 422	180,314 072 771	243,503 473 751	35
40	267,863 546 235	378,721 158 493	533,868 712 711	40
45	538,769 268 988	795,443 825 798	1 170,479 410 505	45
50	1 083,657 441 584	1 670,703 803 603	2 566,215 284 390	50
60	4 383,998 745 657	7 370,201 365 250	12 335,356 481 920	60
70	17 735,720 038 828	32 513,164 839 376	59 293,941 728 746	70
80	71 750,879 401 431	143 429,715 890 351	285 015,802 411 964	80
90	290 272,325 206 305	632 730,879 999 487	1 370 022,050 417 213	90
100	1 174 313,450 700 288	2 791 251,199 374 768	6 585 460,885 836 816	100

Tabelle 1: $(1 + i)^n$

n	p = 18%	p = 19%	p = 20%	n
1	1,180 000 000	1,190 000 000	1,200 000 000	1
2	1,392 400 000	1,416 100 000	1,440 000 000	2
3	1,643 032 000	1,685 159 000	1,728 000 000	3
4	1,938 777 760	2,005 339 210	2,073 600 000	4
5	2,287 757 757	2,386 353 660	2,488 320 000	5
6	2,699 554 153	2,839 760 855	2,985 984 000	6
7	3,185 473 901	3,379 315 418	3,583 180 800	7
8	3,758 859 203	4,021 385 347	4,299 816 960	8
9	4,435 453 859	4,785 448 563	5,159 780 352	9
10	5,233 835 554	5,694 683 790	6,191 736 422	10
11	6,175 925 953	6,776 673 710	7,430 083 707	11
12	7,287 592 625	8,064 241 715	8,916 100 448	12
13	8,599 359 298	9,596 447 641	10,699 320 538	13
14	10,147 243 971	11,419 772 693	12,839 184 645	14
15	11,973 747 886	13,589 529 505	15,407 021 575	15
16	14,129 022 506	16,171 540 110	18,488 425 890	16
17	16,672 246 556	19,244 132 731	22,186 111 067	17
18	19,673 250 937	22,900 517 950	26,623 333 281	18
19	23,214 436 105	27,251 616 361	31,947 999 937	19
20	27,393 034 604	32,429 423 469	38,337 599 924	20
21	32,323 780 833	38,591 013 929	46,005 119 909	21
22	38,142 061 383	45,923 306 575	55,206 143 891	22
23	45,007 632 432	54,648 734 824	66,247 372 669	23
24	53,109 006 270	65,031 994 441	79,496 847 203	24
25	62,668 627 398	77,388 073 385	95,396 216 644	25
26	73,948 980 330	92,091 807 328	114,475 459 973	26
27	87,259 796 789	109,589 250 720	137,370 551 967	27
28	102,966 560 211	130,411 208 357	164,844 662 361	28
29	121,500 541 049	155,189 337 945	197,813 594 833	29
30	143,370 638 438	184,675 312 154	237,376 313 800	30
35	327,997 290 184	440,700 607 053	590,668 229 154	35
40	750,378 344 827	1 051,667 506 560	1 469,771 567 969	40
45	1 716,683 878 913	2 509,650 603 277	3 657,261 988 009	45
50	3 927,356 859 957	5 988,913 902 201	9 100,438 150 002	50
60	20 555,139 966 099	34 104,970 919 274	56 347,514 353 167	60
70	107 582,222 367 875	194 217,025 056 442	348 888,956 932 210	70
80	563 067,660 385 646	1 106 004,544 353 886	2 160 228,462 010 307	80
90	2 947 003,540 120 573	6 298 346,150 529 059	13 375 565,248 934 352	90
100	15 424 131,905 453 299	35 867 089,727 970 724	82 817 974,522 014 550	100

Tabelle 1: $(1 + i)^n$

n	p = 22%	p = 25%	p = 28%	p = 30%
1	1,220 000 000	1,250 000 000	1,280 000 000	1,300 000 000
2	1,488 400 000	1,562 500 000	1,638 400 000	1,690 000 000
3	1,815 848 000	1,953 125 000	2,097 152 000	2,197 000 000
4	2,215 334 560	2,441 406 250	2,684 354 560	2,856 100 000
5	2,702 708 163	3,051 757 813	3,435 973 837	3,712 930 000
6	3,297 303 959	3,814 697 266	4,398 046 511	4,826 809 000
7	4,022 710 830	4,768 371 582	5,629 499 534	6,274 851 700
8	4,907 707 213	5,960 464 478	7,205 759 404	8,157 307 210
9	5,987 402 800	7,450 580 597	9,223 372 037	10,604 499 373
10	7,304 631 415	9,313 225 746	11,805 916 207	13,785 849 185
11	8,911 650 327	11,641 532 183	15,111 572 745	17,921 603 940
12	10,872 213 399	14,551 915 228	19,342 813 114	23,298 085 122
13	13,264 100 346	18,189 894 035	24,758 800 786	30,287 510 659
14	16,182 202 423	22,737 367 544	31,691 265 006	39,373 763 857
15	19,742 286 956	28,421 709 430	40,564 819 207	51,185 893 014
16	24,085 590 086	35,527 136 788	51,922 968 585	66,541 660 918
17	29,384 419 905	44,408 920 985	66,461 399 789	86,504 159 194
18	35,848 992 284	55,511 151 231	85,070 591 730	112,455 406 952
19	43,735 770 586	69,388 939 039	108,890 357 415	146,192 029 038
20	53,357 640 115	86,736 173 799	139,379 657 491	190,049 637 749
21	65,096 320 941	108,420 217 249	178,405 961 588	247,064 529 073
22	79,417 511 548	135,525 271 561	228,359 630 833	321,183 887 795
23	96,889 364 088	169,406 589 451	292,300 327 466	417,539 054 134
24	118,205 024 187	211,758 236 814	374,144 419 157	542,800 770 374
25	144,210 129 509	264,697 796 017	478,904 856 521	705,641 001 487
26	175,936 358 000	330,872 245 021	612,998 216 346	917,333 301 933
27	214,642 356 761	413,590 306 277	784,637 716 923	1 192,533 292 512
28	261,863 675 248	516,987 882 846	1 004,336 277 662	1 550,293 280 266
29	319,473 683 802	646,234 853 557	1 285,550 435 407	2 015,381 264 346
30	389,757 894 239	807,793 566 946	1 645,504 557 321	2 619,995 643 650
31	475,504 630 972	1 009,741 958 683	2 106,245 833 371	3 405,994 336 745
32	580,115 649 785	1 262,177 448 354	2 695,994 666 715	4 427,792 637 768
33	707,741 092 738	1 577,721 810 442	3 450,873 173 395	5 756,130 429 099
34	863,444 133 140	1 972,152 263 053	4 417,117 661 946	7 482,969 557 829
35	1 053,401 842 431	2 465,190 328 816	5 653,910 607 291	9 727,860 425 177
38	1 912,817 628 775	4 814,824 860 968	11 857,109 937 901	21 372,109 354 114
40	2 847,037 758 669	7 523,163 845 263	19 426,688 922 257	36 118,864 808 453
45	7 694,712 191 294	22 958,874 039 498	66 749,594 872 528	134 106,816 713 250
50	20 796,561 452 885	70 064,923 216 241	229 349,861 599 007	497 929,222 979 127

Tabelle 1: $(1 + i)^n$

n	p = 35%	p = 40%	p = 45%	n
1	1,350 000 000	1,400 000 000	1,450 000 000	1
2	1,822 500 000	1,960 000 000	2,102 500 000	2
3	2,460 375 000	2,744 000 000	3,048 625 000	3
4	3,321 506 250	3,841 600 000	4,420 506 250	4
5	4,484 033 438	5,378 240 000	6,409 734 063	5
6	6,053 445 141	7,529 536 000	9,294 114 391	6
7	8,172 150 940	10,541 350 400	13,476 465 866	7
8	11,032 403 769	14,757 890 560	19,540 875 506	8
9	14,893 745 088	20,661 046 784	28,334 269 484	9
10	20,106 555 869	28,925 465 498	41,084 690 752	10
11	27,143 850 423	40,495 651 697	59,572 801 590	11
12	36,644 198 071	56,693 912 375	86,380 562 306	12
13	49,469 667 395	79,371 477 325	125,251 815 344	13
14	66,784 050 984	111,120 068 256	181,615 132 248	14
15	90,158 468 828	155,568 095 558	263 341 941 760	15
16	121,713 932 918	217,795 333 781	381,845 815 552	16
17	164,313 809 439	304,913 467 293	553,676 432 551	17
18	221,823 642 742	426,878 854 211	802,830 827 199	18
19	299,461 917 702	597,630 395 895	1 164,104 699 438	19
20	404,273 588 898	836,682 554 253	1 687,951 814 185	20
21	545,769 345 012	1 171,355 575 954	2,447 530 130 569	21
22	736,788 615 766	1 639,897 806 336	3 548,918 689 324	22
23	994,664 631 285	2 295,856 928 870	5 145,932 099 520	23
24	1 342,797 252 234	3 214,199 700 418	7 461,601 544 305	24
25	1 812,776 290 516	4 499,879 580 585	10 819,322 239 242	25
26	2 447,247 992 197	6 299,831 412 819	15 688,017 246 901	26
27	3 303,784 789 466	8 819,763 977 946	22 747,625 008 006	27
28	4 460,109 465 779	12 347,669 569 125	32 984,056 261 608	28
29	6 021,147 778 801	17 286,737 396 775	47 826,881 579 332	29
30	8 128,549 501 382	24 201,432 355 485	69 348,978 290 032	30
31	10 973,541 826 865	33 882,005 297 678	100 556,018 520 546	31
32	14 814,281 466 268	47 434,807 416 750	145 806,226 854 792	32
33	19 999,279 979 462	66 408,730 383 450	211 419,028 939 448	33
34	26 999,027 972 273	92 972,222 536 830	306 557,591 962 200	34
35	36 448,687 762 569	130 161,111 551 561	444 508,508 345 190	35
38	89 677,440 153 830	357 162,090 097 485	1 355 139,751 253 854	38
40	163 437,134 680 356	700 037,696 591 070	2 849 181,327 011 228	40
45	732 857,576 835 905	3 764 970,741 313 956	18 262 494,601 982 819	45
50	3 286 157,879 457 425	20 248 916,239 764 371	117 057 733,716 551 654	50

Tabelle 1: $(1 + i)^n$

n	p = 50%	p = 60%	p = 70%	p = 80%
1	1,500 000	1,600 000	1,700 000	1,800 000
2	2,250 000	2,560 000	2,890 000	3,240 000
3	3,375 000	4,096 000	4,913 000	5,832 000
4	5,062 500	6,553 600	8,352 100	10,497 600
5	7,593 750	10,485 760	14,198 570	18,895 680
6	11,390 625	16,777 216	24,137 569	34,012 224
7	17,085 938	26,843 546	41,033 867	61,222 003
8	25,628 906	42,949 673	69,757 574	110,199 606
9	38,443 359	68,719 477	118,587 876	198,359 290
10	57,665 039	109,951 163	201,599 390	357,046 723
11	86,497 559	175,921 860	342,718 963	642,684 101
12	129,746 338	281,474 977	582,622 237	1 156,831 381
13	194,619 507	450,359 963	990,457 803	2 082,296 487
14	291,929 260	720,575 940	1 683,778 266	3 748,133 676
15	437,893 890	1 152,921 505	2 862,423 052	6 746,640 616
16	656,840 836	1 844,674 407	4 866,119 188	12 143,953 110
17	985,261 253	2 951,479 052	8 272,402 619	21 859,115 597
18	1 477,891 880	4 722,366 483	14 063,084 452	39 346,408 075
19	2 216,837 820	7 555,786 373	23 907,243 569	70 823,534 536
20	3 325,256 730	12 089,258 196	40 642,314 066	127 482,362 164
21	4 987,885 095	19 342,813 114	69 091,933 913	229 468,251 895
22	7 481,827 643	30 948,500 982	117 456,287 652	413 042,853 411
23	11 222,741 464	49 517,601 571	199 675,689 009	743 477,136 140
24	16 834,112 196	79 228,162 514	339 448,671 315	1 338 258,845 052
25	25 251,168 294	126 765,060 023	577 062,741 235	2 408 865,921 094
26	37 876,752 441	202 824,096 037	981 006,660 099	4 335 958,657 970
27	56 815,128 662	324 518,553 658	1 667 711,322 169	7 804 725,584 346
28	85 222,692 992	519 229,685 853	2 835 109,247 687	14 048 506,051 822
29	127 834,039 489	830 767,497 366	4 819 685,721 068	25 287 310,893 280
30	191 751,059 233	1 329 227,995 785	8 193 465,725 815	45 517 159,607 903
31	287 626,588 849	2 126 764,793 256	13 928 891,733 885	81 930 887,294 226
32	431 439,883 274	3 402 823,669 209	23 679 115,947 605	147 475 597,129 607
33	647 159,824 911	5 444 517,870 735	40 254 497,110 928	265 456 074,833 292
34	970 739,737 366	8 711 228,593 176	68 432 645,088 578	477 820 934,699 926
35	1 456 109,606 050	13 937 965,749 082	116 335 496,650 582	860 077 682,459 867
36	2 184 164,409 075	22 300 745,198 531	197 770 344,305 989	1 548 139 828,427 761
37	3 276 246,613 612	35 681 192,317 649	336 209 585,320 181	2 786 651 691,169 969
38	4 914 369,920 418	57 089 907,708 238	571 556 295,044 308	5 015 973 044,105 944
39	7 371 554,880 627	91 343 852,333 181	971 645 701,575 324	9 028 751 479,390 700
40	11 057 332,320 940	146 150 163,733 090	1 651 797 692,678 051	16 251 752 662,903 259