



Future Value Interest Factor Table



FVIF or Future Value Interest Factor Table

Table 1: Future Value Interest Factor

Period, n	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%
1	1.010	1.020	1.030	1.040	1.050	1.060	1.070	1.080	1.090	1.100	1.110	1.120	1.130	1.140
2	1.020	1.040	1.061	1.082	1.102	1.124	1.145	1.166	1.188	1.210	1.232	1.254	1.277	1.300
3	1.030	1.061	1.093	1.125	1.158	1.191	1.225	1.260	1.295	1.331	1.368	1.405	1.443	1.482
4	1.041	1.082	1.126	1.170	1.216	1.262	1.311	1.360	1.412	1.464	1.518	1.574	1.630	1.689
5	1.051	1.104	1.159	1.217	1.276	1.338	1.403	1.469	1.539	1.611	1.685	1.762	1.842	1.925
6	1.062	1.126	1.194	1.263	1.334	1.410	1.489	1.567	1.677	1.772	1.870	1.974	2.082	2.195
7	1.072	1.149	1.230	1.314	1.407	1.504	1.604	1.714	1.828	1.949	2.076	2.211	2.353	2.502
8	1.083	1.172	1.267	1.369	1.477	1.594	1.718	1.851	1.993	2.144	2.305	2.476	2.658	2.853
9	1.094	1.195	1.305	1.423	1.551	1.689	1.838	1.999	2.172	2.358	2.558	2.773	3.004	3.252
10	1.105	1.219	1.344	1.480	1.629	1.791	1.967	2.158	2.367	2.594	2.839	3.106	3.395	3.707
11	1.116	1.243	1.384	1.539	1.710	1.898	2.105	2.332	2.580	2.853	3.152	3.479	3.836	4.224
12	1.127	1.268	1.426	1.601	1.794	2.012	2.252	2.518	2.813	3.138	3.498	3.896	4.335	4.818
13	1.138	1.294	1.469	1.663	1.886	2.133	2.410	2.720	3.066	3.452	3.883	4.363	4.898	5.492
14	1.149	1.319	1.513	1.732	1.980	2.261	2.579	2.937	3.342	3.797	4.310	4.887	5.535	6.261
15	1.161	1.346	1.558	1.801	2.079	2.397	2.759	3.172	3.642	4.177	4.783	5.474	6.254	7.138
16	1.173	1.373	1.600	1.872	2.181	2.540	2.952	3.426	3.979	4.595	5.311	6.130	7.067	8.137
17	1.184	1.400	1.653	1.948	2.292	2.693	3.159	3.700	4.328	5.054	5.895	6.864	7.986	9.274
18	1.196	1.428	1.702	2.024	2.407	2.854	3.380	3.994	4.717	5.560	6.544	7.690	9.024	10.575
19	1.208	1.457	1.754	2.107	2.527	3.024	3.617	4.316	5.142	6.114	7.263	8.613	10.197	12.054
20	1.220	1.486	1.806	2.191	2.653	3.207	3.870	4.641	5.604	6.728	8.062	9.646	11.523	13.743
24	1.270	1.608	2.010	2.563	3.225	4.049	5.072	6.341	7.911	9.850	12.339	15.179	18.790	23.212
25	1.282	1.641	2.064	2.646	3.384	4.292	5.427	6.848	8.613	10.835	13.585	17.000	21.331	26.462
30	1.348	1.811	2.427	3.243	4.323	5.743	7.613	10.063	13.248	17.449	22.892	29.960	39.116	50.950
40	1.489	2.208	3.262	4.801	7.040	10.286	14.974	21.725	31.409	45.259	65.001	93.051	132.782	188.884

FUTURE VALUE INTEREST FACTOR TABLE IS AN ESSENTIAL FINANCIAL TOOL UTILIZED BY INVESTORS, FINANCIAL ANALYSTS, AND ANYONE INVOLVED IN FINANCIAL PLANNING TO ESTIMATE THE FUTURE VALUE OF AN INVESTMENT BASED ON A SPECIFIC INTEREST RATE AND INVESTMENT PERIOD. THIS TABLE SIMPLIFIES THE CALCULATION OF FUTURE VALUES WITHOUT REQUIRING COMPLEX FORMULAS OR FINANCIAL CALCULATORS. IN THIS ARTICLE, WE WILL EXPLORE THE CONCEPT OF FUTURE VALUE, THE IMPORTANCE OF THE FUTURE VALUE INTEREST FACTOR (FVIF), HOW TO USE THE FVIF TABLE, ITS APPLICATIONS, AND SOME PRACTICAL EXAMPLES.

UNDERSTANDING FUTURE VALUE

FUTURE VALUE (FV) REFERS TO THE AMOUNT OF MONEY AN INVESTMENT WILL GROW TO OVER A SPECIFIED PERIOD AT A PREDETERMINED INTEREST RATE. IT IS A CRITICAL CONCEPT IN FINANCE THAT HELPS INVESTORS UNDERSTAND HOW THEIR INVESTMENTS MIGHT PERFORM OVER TIME.

THE FORMULA FOR CALCULATING FUTURE VALUE IS:

$$[FV = PV \times (1 + r)^N]$$

WHERE:

- (FV) = FUTURE VALUE
- (PV) = PRESENT VALUE (INITIAL INVESTMENT)
- (r) = ANNUAL INTEREST RATE (AS A DECIMAL)
- (N) = NUMBER OF YEARS

WHILE THIS FORMULA PROVIDES A CLEAR METHOD FOR CALCULATING FUTURE VALUE, THE FUTURE VALUE INTEREST FACTOR PROVIDES A MORE ACCESSIBLE WAY TO ARRIVE AT THE SAME OUTCOME.

WHAT IS THE FUTURE VALUE INTEREST FACTOR (FVIF)?

THE FUTURE VALUE INTEREST FACTOR (FVIF) IS A MULTIPLIER DERIVED FROM THE FUTURE VALUE FORMULA THAT REPRESENTS THE GROWTH OF A DOLLAR OVER TIME AT A SPECIFIC INTEREST RATE. THE FVIF ALLOWS INVESTORS TO EASILY CALCULATE THE FUTURE VALUE OF A LUMP SUM INVESTMENT WITHOUT PERFORMING COMPLEX CALCULATIONS.

THE FVIF CAN BE EXPRESSED AS:

$$FVIF = (1 + r)^N$$

WHERE:

- r = ANNUAL INTEREST RATE

- N = NUMBER OF YEARS

BY USING THE FVIF, YOU CAN QUICKLY FIND THE FUTURE VALUE OF ANY PRESENT SUM BY MULTIPLYING THE PRESENT VALUE BY THE FVIF CORRESPONDING TO THE DESIRED INTEREST RATE AND TIME PERIOD.

CREATING A FUTURE VALUE INTEREST FACTOR TABLE

A FUTURE VALUE INTEREST FACTOR TABLE TYPICALLY PRESENTS A RANGE OF INTEREST RATES AND TIME PERIODS. HERE IS A SIMPLIFIED VERSION OF HOW SUCH A TABLE MIGHT LOOK:

YEARS	5%	6%	7%	8%	9%
1	1.050	1.060	1.070	1.080	1.090
2	1.102	1.124	1.144	1.166	1.188
3	1.157	1.191	1.225	1.259	1.295
4	1.215	1.262	1.310	1.360	1.411
5	1.276	1.338	1.402	1.469	1.538

EACH CELL IN THE TABLE REPRESENTS THE FVIF FOR A CORRESPONDING COMBINATION OF YEARS AND INTEREST RATES. FOR EXAMPLE, THE FVIF FOR 5 YEARS AT A 6% INTEREST RATE IS 1.338.

HOW TO USE THE FVIF TABLE

USING THE FVIF TABLE IS STRAIGHTFORWARD AND INVOLVES JUST A FEW STEPS:

1. IDENTIFY THE PRESENT VALUE: DETERMINE THE AMOUNT OF MONEY YOU WISH TO INVEST OR THE PRESENT VALUE (PV).
2. SELECT THE INTEREST RATE: CHOOSE THE ANTICIPATED ANNUAL INTEREST RATE FOR YOUR INVESTMENT.
3. DETERMINE THE INVESTMENT PERIOD: DECIDE THE NUMBER OF YEARS YOU PLAN TO KEEP THE INVESTMENT.
4. LOCATE THE FVIF: FIND THE FVIF FROM THE TABLE THAT CORRESPONDS TO YOUR CHOSEN INTEREST RATE AND INVESTMENT PERIOD.
5. CALCULATE THE FUTURE VALUE: MULTIPLY THE PRESENT VALUE (PV) BY THE FVIF TO FIND THE FUTURE VALUE (FV).

FOR EXAMPLE, IF YOU HAVE A PRESENT VALUE OF \$1,000, AN INTEREST RATE OF 5%, AND AN INVESTMENT PERIOD OF 5 YEARS, YOU WOULD DO THE FOLLOWING:

- FIND THE FVIF FOR 5 YEARS AT 5%, WHICH IS 1.276.

- CALCULATE THE FUTURE VALUE:

$$FV = 1000 \times 1.276 = 1276$$

THUS, THE INVESTMENT WILL GROW TO \$1,276 IN 5 YEARS AT A 5% INTEREST RATE.

APPLICATIONS OF THE FUTURE VALUE INTEREST FACTOR TABLE

THE FVIF TABLE HAS SEVERAL PRACTICAL APPLICATIONS, INCLUDING:

1. INVESTMENT PLANNING

INVESTORS USE THE FVIF TABLE TO PROJECT THE FUTURE VALUE OF THEIR INVESTMENTS. THIS IS CRUCIAL FOR LONG-TERM INVESTMENT STRATEGIES, HELPING INVESTORS UNDERSTAND HOW MUCH THEIR MONEY CAN GROW OVER TIME BASED ON DIFFERENT INTEREST RATES.

2. RETIREMENT PLANNING

INDIVIDUALS PLANNING FOR RETIREMENT CAN UTILIZE THE FVIF TABLE TO ESTIMATE HOW MUCH THEY NEED TO SAVE TODAY TO REACH THEIR DESIRED RETIREMENT GOAL. BY UNDERSTANDING THE FUTURE VALUE OF THEIR SAVINGS, THEY CAN ADJUST THEIR CONTRIBUTIONS ACCORDINGLY.

3. LOAN AND MORTGAGE CALCULATIONS

THE FVIF TABLE CAN ALSO ASSIST IN CALCULATING FUTURE PAYMENTS ON LOANS AND MORTGAGES. BORROWERS CAN ESTIMATE HOW MUCH THEY WILL OWE IN THE FUTURE BASED ON THE INTEREST RATE AND THE TERM OF THE LOAN.

4. BUSINESS FINANCIAL FORECASTING

COMPANIES OFTEN LEVERAGE FVIF TABLES IN THEIR FINANCIAL FORECASTING MODELS TO PROJECT FUTURE REVENUES AND PROFITS BASED ON EXPECTED GROWTH RATES.

BENEFITS OF USING THE FVIF TABLE

- **SIMPLICITY:** THE FVIF TABLE SIMPLIFIES THE PROCESS OF CALCULATING FUTURE VALUES, MAKING IT ACCESSIBLE TO THOSE WITHOUT ADVANCED FINANCIAL KNOWLEDGE.
- **TIME-SAVING:** INSTEAD OF PERFORMING COMPLEX CALCULATIONS FOR EACH INVESTMENT SCENARIO, USERS CAN QUICKLY REFERENCE THE TABLE TO OBTAIN THE NECESSARY FACTORS.
- **FLEXIBILITY:** THE TABLE ALLOWS USERS TO QUICKLY ASSESS VARIOUS SCENARIOS WITH DIFFERENT INTEREST RATES AND INVESTMENT PERIODS.
- **VISUALIZATION:** IT PROVIDES A VISUAL REPRESENTATION OF HOW INVESTMENTS GROW OVER TIME, AIDING IN BETTER UNDERSTANDING AND PLANNING.

LIMITATIONS OF THE FVIF TABLE

WHILE THE FVIF TABLE IS A USEFUL TOOL, IT DOES HAVE SOME LIMITATIONS:

- **DISCRETE VALUES:** THE TABLE TYPICALLY INCLUDES A LIMITED NUMBER OF INTEREST RATES AND TIME PERIODS, WHICH MAY

NOT COVER SPECIFIC SCENARIOS.

- **ASSUMPTION OF CONSTANT RATES:** THE FVIF ASSUMES A CONSTANT INTEREST RATE OVER THE INVESTMENT PERIOD, WHICH MAY NOT REFLECT REAL-WORLD CONDITIONS WHERE RATES FLUCTUATE.

- **IGNORES COMPOUNDING FREQUENCY:** THE TABLE GENERALLY ASSUMES ANNUAL COMPOUNDING. FOR INVESTMENTS WITH DIFFERENT COMPOUNDING FREQUENCIES (MONTHLY, QUARTERLY), ADJUSTMENTS WOULD NEED TO BE MADE.

CONCLUSION

THE FUTURE VALUE INTEREST FACTOR TABLE IS A VALUABLE RESOURCE FOR ANYONE LOOKING TO UNDERSTAND AND CALCULATE THE FUTURE VALUE OF INVESTMENTS EASILY. BY USING THE FVIF, INVESTORS CAN MAKE INFORMED DECISIONS, PLAN FOR RETIREMENT, AND FORECAST FINANCIAL OUTCOMES WITH GREATER ACCURACY. DESPITE ITS LIMITATIONS, THE FVIF TABLE REMAINS A STAPLE IN FINANCIAL EDUCATION AND PRACTICE, PROMOTING BETTER FINANCIAL LITERACY AND PLANNING FOR INDIVIDUALS AND BUSINESSES ALIKE. WHETHER YOU'RE AN EXPERIENCED INVESTOR OR JUST STARTING YOUR FINANCIAL JOURNEY, FAMILIARIZING YOURSELF WITH THE FVIF TABLE CAN ENHANCE YOUR FINANCIAL DECISION-MAKING SKILLS SIGNIFICANTLY.

FREQUENTLY ASKED QUESTIONS

WHAT IS A FUTURE VALUE INTEREST FACTOR (FVIF)?

THE FUTURE VALUE INTEREST FACTOR (FVIF) IS A FORMULA USED TO DETERMINE THE FUTURE VALUE OF A SUM OF MONEY BASED ON A SPECIFIC INTEREST RATE AND TIME PERIOD.

HOW IS THE FVIF TABLE STRUCTURED?

THE FVIF TABLE TYPICALLY DISPLAYS THE FUTURE VALUE FACTORS FOR DIFFERENT INTEREST RATES AND TIME PERIODS, ALLOWING USERS TO QUICKLY FIND THE FACTOR NEEDED FOR THEIR CALCULATIONS.

WHY IS THE FVIF TABLE USEFUL IN FINANCE?

THE FVIF TABLE IS USEFUL FOR FINANCIAL PLANNING, INVESTMENT ANALYSIS, AND DETERMINING HOW MUCH AN INVESTMENT WILL GROW OVER TIME AT A GIVEN INTEREST RATE.

HOW DO YOU CALCULATE FUTURE VALUE USING THE FVIF?

TO CALCULATE FUTURE VALUE, MULTIPLY THE PRESENT VALUE BY THE FVIF CORRESPONDING TO THE DESIRED INTEREST RATE AND TIME PERIOD.

CAN THE FVIF BE USED FOR BOTH SIMPLE AND COMPOUND INTEREST?

YES, THE FVIF IS PRIMARILY USED FOR COMPOUND INTEREST CALCULATIONS, BUT IT CAN ALSO ILLUSTRATE SIMPLE INTEREST CONCEPTS.

HOW DO YOU FIND THE FVIF FOR A SPECIFIC INTEREST RATE AND TIME PERIOD?

YOU LOCATE THE APPROPRIATE ROW FOR THE TIME PERIOD AND THE COLUMN FOR THE INTEREST RATE IN THE FVIF TABLE.

WHAT FACTORS INFLUENCE THE VALUES IN THE FVIF TABLE?

THE VALUES IN THE FVIF TABLE ARE INFLUENCED BY THE INTEREST RATE, TIME PERIOD, AND THE FREQUENCY OF COMPOUNDING.

IS THERE AN ONLINE TOOL TO CALCULATE FVIF INSTEAD OF USING A TABLE?

YES, THERE ARE VARIOUS ONLINE CALCULATORS AND FINANCIAL SOFTWARE THAT ALLOW USERS TO CALCULATE FVIF WITHOUT MANUALLY REFERENCING A TABLE.

HOW OFTEN SHOULD I REFER TO THE FVIF TABLE WHEN PLANNING INVESTMENTS?

YOU SHOULD REFER TO THE FVIF TABLE WHENEVER YOU NEED TO EVALUATE THE FUTURE VALUE OF INVESTMENTS OR SAVINGS OVER TIME, ESPECIALLY DURING INITIAL PLANNING STAGES.

ARE THERE ANY LIMITATIONS TO USING THE FVIF TABLE?

THE FVIF TABLE ASSUMES CONSTANT INTEREST RATES AND DOES NOT ACCOUNT FOR FACTORS LIKE INFLATION OR CHANGES IN INVESTMENT PERFORMANCE OVER TIME.

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Future Value Interest Factor Table

QUERY function - Google Docs Editors Help

QUERY function Runs a Google Visualization API Query Language query across data. Sample Usage QUERY(A2:E6,"select avg(A) pivot B") QUERY(A2:E6,F2,FALSE) Syntax QUERY(data, query, [headers]) data - The range of cells to perform the query on. Each column of data can only hold boolean, numeric (including date/time types) or string values.

Función QUERY - Ayuda de Editores de Documentos de Google

Función QUERY Ejecuta una consulta sobre los datos con el lenguaje de consultas de la API de visualización de Google. Ejemplo de uso QUERY(A2:E6,"select avg(A) pivot B") QUERY(A2:E6,F2,FALSO) Sintaxis QUERY(datos, consulta, [encabezados]) datos: Rango de celdas en el que se hará la consulta.

QUERY - Справка - Редакторы Google Документов

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BigQuery - Google Cloud Platform Console Help

Use a variety of third-party tools to access data on BigQuery, such as tools that load or visualize your data. Use datasets to organize and control access to tables, and construct jobs for BigQuery to execute (load, export, query, or copy data). Find BigQuery in the left side menu of the Google Cloud Platform Console, under Big Data.

Hàm QUERY - Trình chỉnh sửa Google Tài liệu Trợ giúp

Hàm QUERY Chạy truy vấn bằng Ngôn ngữ truy vấn của API Google Visualization trên nhiều dữ liệu. Ví dụ mẫu QUERY(A2:E6;"select avg(A) pivot B") QUERY(A2:E6;F2;FALSE) Cú pháp QUERY(dữ_liệu; truy_vấn; [tiêu_đề]) dữ_liệu - Dải ô thực hiện truy vấn.

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