

The Power of Compounding Interest

An example of compound interest and the advantage of saving early.

Investor A was 19 years old and made \$2,000 contributions for 8 years.

Investor B was age 27 and contributed \$2,000 annually through age 65.

The total contribution for Investor B was \$78,000 versus Investor A's \$16,000. But the final aggregate was \$805,000 for Investor B versus \$1,019,000 for Investor A assuming a 10% compound total return.

Investor A			Investor B		
Age	IRA Contribution	Year-End Value	Age	IRA Contribution	Year-End Value
19	\$2,000	\$2,200	19	0	0
20	2,000	4,620	20	0	0
21	2,000	7,282	21	0	0
22	2,000	10,210	22	0	0
23	2,000	13,431	23	0	0
24	2,000	16,974	24	0	0
25	2,000	20,872	25	0	0
26	2,000	25,159	26	0	0
27	0	27,675	27	\$2,000	\$2,200
28	0	30,442	28	\$2,000	4,620
29	0	33,487	29	\$2,000	7,282
30	0	36,835	30	\$2,000	10,210
31	0	40,519	31	\$2,000	13,431
32	0	44,571	32	\$2,000	16,974
33	0	49,028	33	\$2,000	20,872
34	0	53,930	34	\$2,000	25,159
35	0	59,323	35	\$2,000	29,875
36	0	65,256	36	\$2,000	35,062
37	0	71,781	37	\$2,000	40,769
38	0	78,960	38	\$2,000	47,045
39	0	86,856	39	\$2,000	53,950
40	0	95,541	40	\$2,000	61,545
41	0	105,095	41	\$2,000	69,899
42	0	115,605	42	\$2,000	79,089
43	0	127,165	43	\$2,000	89,198
44	0	139,882	44	\$2,000	100,318
45	0	153,870	45	\$2,000	112,550
46	0	169,257	46	\$2,000	126,005
47	0	186,183	47	\$2,000	140,805
48	0	204,801	48	\$2,000	157,086
49	0	225,281	49	\$2,000	174,995
50	0	247,809	50	\$2,000	194,694
51	0	272,590	51	\$2,000	216,364
52	0	299,849	52	\$2,000	240,200
53	0	329,834	53	\$2,000	266,420
54	0	362,817	54	\$2,000	295,262
55	0	399,099	55	\$2,000	326,988
56	0	439,009	56	\$2,000	361,887
57	0	482,910	57	\$2,000	400,276
58	0	531,201	58	\$2,000	442,503
59	0	584,321	59	\$2,000	488,953
60	0	642,753	60	\$2,000	540,049
61	0	707,028	61	\$2,000	596,254
62	0	777,731	62	\$2,000	658,079
63	0	855,504	63	\$2,000	726,087
64	0	941,054	64	\$2,000	800,896
65	0	1,035,160	65	\$2,000	883,185
Less Total Invested		(16,000)			(78,000)
Net Earnings		\$1,019,160			\$805,185
Money Grew		64-fold			11-fold