

The MATH of RETIREMENT

Average Return vs. Consistency of Return

Hans \$1,000,000

Year	Withdrawal	Return	End Value
1	\$50,000.00	-13%	\$826,500.00
2	\$50,000.00	-20%	\$661,200.00
3	\$50,000.00	5%	\$694,260.00
4	\$50,000.00	-7%	\$599,161.80
5	\$50,000.00	20%	\$658,994.16
6	\$50,000.00	25%	\$761,242.70
7	\$50,000.00	-25%	\$533,432.03
8	\$50,000.00	45%	\$700,976.44
9	\$50,000.00	30%	\$846,269.37
10	\$50,000.00	20%	\$908,060.56

Return Average: 8%, Std Dev: 23



Franz \$1,000,000

Year	Withdrawal	Return	End Value
1	\$50,000.00	6%	\$1,007,000.00
2	\$50,000.00	8%	\$1,087,560.00
3	\$50,000.00	7%	\$1,163,689.20
4	\$50,000.00	11%	\$1,236,195.01
5	\$50,000.00	-4%	\$1,138,747.21
6	\$50,000.00	6%	\$1,154,072.04
7	\$50,000.00	12%	\$1,236,560.69
8	\$50,000.00	-2%	\$1,162,829.48
9	\$50,000.00	10%	\$1,224,112.42
10	\$50,000.00	6%	\$1,244,559.17

Return Average: 6%, Std Dev: 5



WHAT IS RISK?

Average Return (mean): 8%, Standard Deviation: 10

What does this mean?

68% of the time: You will have a one year return between -2% and 18%.

95% of the time: You will have a one year return between -12% and 28%.

99% of the time: You will have a one year return between -22% and 38%.