RISK And RETURN

- A stock earns the following returns over a five year period: R1 = 0.30, R2 = -0.20, R3
- = -0.12, R4 = 0.38, R5 = 0.42, R6 = 0.36. Calculate the following: (a) arithmetic
- mean return, (b) geometric mean return.

Answer

- Geometric Mean
- = [(1.30) (0.80) (0.88) (1.38) (1.42) (1.36)]1/6 1 = 0.1602 or 16.02 %

- A stock earns the following returns over a five year period: R1 = 10 %, R2 = 16%, R3
- = 24 %, R4 = 2 %, R5 = 12 %, R6 = 15%. Calculate the following: (a) arithmetic
- mean return, (c) geometric mean return.

Answer

- Geometric Mean
- = [(1.10) (1.16) (1.24) (0.98) (1.12) (1.15)]1/6 1 = 0.1222 or 12.22 %

What is the expected return and standard deviation of returns for the stock described

Period	Return in %
1	30
2	-20
3	-12
4	38
5	42
6	36

What is the expected return and standard deviation of returns for the stock described in 2?

Period	Return in %
1	10
2	16
3	24
4	-2
5	12
6	15

The following table, gives the rate of return on stock of Apple Computers and on the market portfolio for five years . (i) What is the beta of the stock of Apple Computers?

Year	Return on the stock Return	Return Market Portfolio (%)
1	-13	-3
2	5	2
3	15	8
4	27	12
5	10	7

The rate of return on the stock of Sigma Technologies and on the market portfolio

for 6 periods has been as follows: What is the beta of the stock of Sigma Technologies.?

Year	Return on the stock Return	Return Market Portfolio (%)
1	16	14
2	12	10
3	-9	6
4	32	18
5	15	12
6	18	15