

Measuring Expected Return and Risk

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Measuring Expected Return and Risk

Expected Return is the weighted average of possible returns

Risk reflects dispersion of possible returns around the expected return, measured by standard deviation of returns

Example

Security X has a 10% probability of a 15% return, an 80% probability of a 25% return and a 10% probability of a 35% return.

Security Y has a 10% probability of a 10% return, an 80% probability of a 30% return and a 10% probability of a 50% return.

Calculate the expected return and standard deviation for both Security \boldsymbol{X} and Security \boldsymbol{Y} .



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Measuring Expected Return

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Probability	Security X Return		
0.1	15%	1.5%	
0.8	25%	20.0%	
0.1	35%	3.5%	
Expected Return	1	25%	
Probability	Security Y Return		
0.1	10%	1.0%	
0.8	30%	24.0%	
0.1	50%	5.0%	
Expected Return	า	30%	

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Measuring Risk

Probability	Security X Return	$X - \overline{X}$	$p(X - X)^2$	
0.1	15%	-10	10	
8.0	25%	0	0	
0.1	35%	10	10	Std Deviation
		Variance	20	
				$\sqrt{20} = 4.47\%$
Probability	Security Y Return	$X - \overline{X}$	$p(X - \overline{X})^2$	
0.1	10%	-20	40	
0.8	30%	0	0	
0.1	50%	20	40	Std Deviation
		Variance	80	



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