

## Chapter 11

1. What do  $b_1$  and  $b_0$  mean in a least squares regression line?

*$b_1$  represents the slope and  $b_0$  represents the intersection with the y-axis.*

2. What components are in the analysis of variance?

*Sum of squares total, sum of squares error and sum of squares regression.*

3. What does the coefficient of determination say about the regression?

*A higher value means a better regression.*

4. Which two quantities determine the variance of the slope coefficient?

*The distance of the points on the regression line, and the total deviation of the X values of the average.*

5. When can we use regression models in the prediction of the dependent variable?

*If the future value of the independent variable is given.*

6. What is the result of a wider interval?

*The wider the interval, the greater the uncertainty surrounding the point prediction.*

7. Which three volumes affect the prediction and confidence intervals and in what way?

*The larger  $s_e^2$ , the greater the prediction interval and the confidence interval.*

*The larger the sample size  $n$ , the narrower the prediction interval and the confidence interval.*

*The greater the dispersion, the more information, the more precise estimates.*

8. What is the difference between diversifiable risk and non diversifiable risk?

*Diversifiable risk is that risk associated with specific firms and industries.*

*Non diversifiable risk is the risk associated with the entire economy.*

9. Name three examples of diversifiable risk.

*Labor conflicts, new competition, consumer market changes.*

10. How could the diversifiable risk be controlled?

*By larger portfolio sizes and by including stocks whose returns have negative correlations.*

11. What does the beta coefficient say?

*How responsive the returns for a particular firm are to the overall market returns*

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12. What does it mean when the beta coefficient is 1?

*Then a company's returns follow the market exactly.*

13. How do you know the return on a company reacts violently on the market?

*If the beta is more than 1.*

14. What are the components of the required return on an investment?

*Risk-free rate, beta for investment and market return.*

15. What are extreme points?

*Points that have X values that deviate substantially from the X values of the other points.*

16. What are outlier points?

*Points that deviate substantially in the Y direction from the predicted value.*