1. Using the index model, the alpha of a stock is 3.0%, the beta if 1.1 and the market return is 10%. What is the residual given an actual return of 15%?

B 0.0% B 1.0% C. 2.0% D. 3.0%

$$R_i = 3 + 1.1(10) + e_i$$

 $e_i = 1$

- 2. The risk premium for exposure to exchange rates is 5% and the firm has a beta relative to exchanges rates of 0.4. The risk premium for exposure to the consumer price index is -6% and the firm has a beta relative to the CPI of 0.8. If the risk free rate is 3.0%, what is the expected return on this stock?
 - A. 0.2% B. 1.5% C. 3.6%
 - D. 4.0%

$$E(r) = 3 + .4(5) + .8(-6) = .2\%$$

3. You run a regression of a stock's returns versus a market index and find the following:

	Coefficients	Lower 95%	Upper 95%
Intercept	0.789	-1.556	3.457
Slope	0.890	0.6541	1.465

Based on the data you know that the stock

A. earned a positive alpha that is statistically significantly different from zero

B. has a beta precisely equal to 0.890

C has a beta that could be anything between 0.6541 and 1.465 inclusive

D. has no systematic risk

4. In a well diversified portfolio, _____ risk is negligible.

- A. nondiversifiable
- B. market
- C. systematic
- D. unsystematic

5. Standard deviation of portfolio returns is a measure of ______.

A. total risk

- B. relative systematic risk
- C. relative non-systematic risk
- D. relative business risk

- 6. In the context of the capital asset pricing model, the systematic measure of risk is captured by ______.
 - A unique risk
 B beta
 C. standard deviation of returns
 D. variance of returns
- 7. What is the expected return on a stock with a beta of 0.8, given a risk free rate of 3.5% and an expected market return of 15.5%?
 - A 3.8% B 13.1% C. 15.6% D. 19.1%

 $E(r_i) = 3.5 + .8(15.5 - 3.5) = 13.1\%$

- 8. The two factor model on a stock provides a risk premium for exposure to market risk of 12%, a risk premium for exposure to silver commodity prices of 3.5% and a risk free rate of 4.0%. What is the expected return on the stock?
 - A. 11.6%
 B. 13.0%
 C. 15.3%
 D. 19.5%

Assuming $\beta = 1$ on both factors: E(r) = 4 + 1(12) + 1(3.5) = 19.5%

9. Arbitrage is based on the idea that _____.

A. assets with identical risks must have the same expected rate of return

- B. securities with similar risk should sell at different prices
- C. the expected returns from equally risky assets are different
- D. markets are perfectly efficient
- 10. According to the CAPM, what is the market risk premium given an expected return on a security of 13.6%, a stock beta of 1.2, and a risk free interest rate of 4.0%?
 - A. 4.0% B. 4.8% C 6.6% D. 8.0%

$$E(r_i) = r_f + \beta_i [E(r_m) - r_f]$$

13.6 = 4 + 1.2(MRP)
MRP = 8%