

Képletgyűjtemény Befektetési alapkezelés tantárgyból (3.0)

$$1. y = \frac{E(r_p) - r_f}{0,01 * A * \sigma_a^2}$$

$$2. E(r_p) = y * E(r_a) * (1 - y) * r_f$$

$$3. \sigma_p = y * \sigma_a$$

$$4. cov(r_d; r_e) = \sigma_d * \sigma_e * \rho_{de}$$

$$5. W_d = \frac{\sigma_e^2 - \sigma_d * \sigma_e * \rho_{de}}{\sigma_d^2 + \sigma_e^2 - 2 * \sigma_d * \sigma_e * \rho_{de}}$$

$$6. W_d = \frac{\sigma_e}{\sigma_e + \sigma_d}$$

$$7. E(r_p) = W_d * E(r_d) + W_e * E(r_e)$$

$$8. \sigma_p^2 = W_d^2 * \sigma_d^2 + W_e^2 * \sigma_e^2 + 2 * W_d * \sigma_d * W_e * \sigma_e * \rho_{de}$$

$$9. W_d = \frac{[E(r_d) - r_f] \sigma_e^2 - [E(r_e) - r_f] \sigma_d \sigma_e \rho_{de}}{[E(r_d) - r_f] \sigma_e^2 + [E(r_e) - r_f] \sigma_d^2 - [E(r_d) - r_f + E(r_e) - r_f] \sigma_d \sigma_e \rho_{de}}$$

$$10. S_A = \frac{E(r_A) - r_f}{\sigma_A}$$

$$11. E(r_p) = r_f + \beta_p * [E(r_M) - r_f]$$

$$12. \beta_i = \frac{E(r_i) - r_f}{E(r_M) - r_f}$$

$$13. \beta_i = \frac{cov(r_i; r_M)}{\sigma_M^2}$$

$$14. \beta = \frac{2}{3} * \beta_i + \frac{1}{3} * 1$$

$$15. P_N = C * \frac{1}{r}$$

$$16. \beta_{t+1} = a + b * \beta_t$$

$$17. \beta_p = \sum_{i=1}^n W_i * \beta_i$$

$$18. \sigma_i^2 = \beta_i^2 * \sigma_M^2 + \sigma^2(e_i)$$

$$19. E(r_p) = \sum_{i=1}^n W_i * E(r_i)$$

$$20. \sigma_p^2 = \sigma_S^2(P) + \sigma_{NS}^2(P)$$

$$21. \sigma_S^2(P) = \beta_P^2 * \sigma_M^2$$

$$22. R_i = \alpha_i + \beta_i * R_M + e_i$$

$$23. COV(R_i; R_j) = \beta_i * \beta_j * \sigma_M^2$$

$$24. \sigma_i^2 = \beta_i^2 * \sigma_M^2 + \sigma_{NS}^2(i)$$

$$25. r_a - r_f = \alpha_a + \beta_a * (r_M - r_f) + e_a$$

$$26. \sigma_S^2(i) = \beta_i^2 * \sigma_M^2$$

$$27. \sigma_{NS}^2(i) = (1 - R^2) * \sigma_i^2$$

$$28. \sigma_{NS}^2(i) = \sigma_i^2 - \beta_i^2 * \sigma_M^2$$

$$29. \rho_{ab} = \frac{cov(r_a; r_b)}{\sigma_a * \sigma_b}$$

$$30. COV(r_i; r_m) = \beta_i \sigma_M^2$$

$$31. R^2 = \frac{\beta_i^2 * \sigma_M^2}{\sigma_i^2}$$

$$32. COV(R_a; R_m) = W_a * \sigma_a^2 + W_b * \sigma_a * \sigma_b * \rho_{ab}$$

$$33. \alpha_p = \sum_{i=1}^n \alpha_i * w_i$$

$$34. r_i = E(r_i) + \beta_i * F + e_i$$

$$35. E(r_A) = r_f + \beta_A * [E(r_M) - r_f] + e_A + \alpha_A$$

$$36. w_0 = \frac{\frac{\alpha_A}{\sigma_{NS}^2(A)}}{E(r_M) - r_f + \frac{\alpha_A}{\sigma_M^2}}$$

$$37. W_i = \frac{\frac{\alpha_i}{\sigma_{NS}^2(i)}}{\sum_{i=1}^n \frac{\alpha_i}{\sigma_{NS}^2(i)}}$$

$$38. w^* = \frac{w_0}{1 + (1 - \beta_A) * w_0}$$

$$39. E(r_p) = w^* * E(r_A) + (1 - w^*) * E(r_M)$$

$$38b. w^* = \frac{w_0}{1 + (1 - \beta_M) * (1 - \beta_H) * w_0}$$

$$40. \sigma_{NS}^2(A) = \sum_{i=1}^n w_i^2 * \sigma_{NS}^2(i)$$

$$41. \sigma_p^2 = w^{*2} * [\beta_A^2 * \sigma_M^2 + \sigma_{NS}^2(A)] + (1 - w^*)^2 * \sigma_M^2 + 2 * w^* * (1 - w^*) * \beta_A * \sigma_M^2$$

$$45. AR_P = \frac{\alpha_P}{\sigma_{NS}(P)}$$

$$42. S_P = \frac{\bar{r}_p - \bar{r}_f}{\bar{\sigma}_p}$$

$$43. T_P = \frac{\bar{r}_p - \bar{r}_f}{\beta_P}$$

$$44. \alpha_P = \bar{r}_p - [\bar{r}_f + \beta_P * (\bar{r}_M - \bar{r}_f)]$$

$$47. y = \frac{E(r_R) - r_f}{A * \sigma_R^2}$$

$$46. E(r_A) = \alpha_A + r_f + \beta_H * [E(r_H) - r_f] + \beta_M * [E(r_M) - r_f] + e_i$$

$$48. COV(r_M; r_H) = w_M * \beta_M * \sigma_M^2 + w_H * \beta_H * \sigma_H^2$$

$$49. \sigma_A = \sqrt{\sigma_{NS}^2(A) + \beta_M^2 * \sigma_M^2 + \beta_H^2 * \sigma_H^2}$$