

Capita Selecta

Bijles cursus

Snel, gestructureerd en effectief tentamens halen

Sinds 1994 verzorgt Capita Selecta cursussen ter voorbereiding op een tentamen. De cursus bestaat uit drie of vier lessen van drie uur die worden gegeven door zorgvuldig geselecteerde repetitoren. Dit zijn ouderejaars studenten of net afgestudeerden die het vak succesvol hebben afgerond. Tijdens de cursus wordt de lesstof behandeld aan de hand van een lespakket met oude tentamenvragen. Er is ten aller tijde gelegenheid om vragen te stellen.

Tentamenvragen Statistiek 1b

1. Which of the following is **not** a characteristic of the normal probability distribution?

- a) The mean, median, and the mode are equal
- b) The mean of the distribution can be negative, zero, or positive
- c) The distribution is symmetrical
- d) The standard deviation must be 1

- a) \$940
- b) \$610
- c) \$780
- d) \$1000

2. The level of significance in hypothesis testing is the probability of

- a) accepting a true null hypothesis
- b) accepting a false null hypothesis
- c) rejecting a true null hypothesis
- d) None of these alternatives is correct.

3. A sample of 20 cans of tomato juice showed a standard deviation of 0.4 ounces. A 95% confidence interval estimate of the variance for the population is

- a) 0.2313 to 0.8533
- b) 0.2224 to 0.7924
- c) 0.0889 to 0.3169
- d) 0.0925 to 0.3413

4. You have recently joined a country club. The number of times you expect to play golf in a month is represented by a random variable with a mean of 10 and a standard deviation of 2.2. If you pay monthly membership fees of \$500 per month and pay an additional \$50 per round of golf, what will be your average monthly bill from the country club?

5. A manufacturer of bags of cement claims that they fill each bag with an average of 50.2 pounds of cement. Assume that the standard deviation for the amount in each bag is 1.2 pounds. The decision rule is adopted to shut down the filling machine if the sample mean weight for a sample of 40 bags is below 49.8. Suppose that the true mean weight of bags is 50 pounds. Using this decision rule, what is the probability of a Type II error? Assume that the weight of the bags of cement follows a normal distribution.

- a) 0.70
- b) 0.80
- c) 0.75
- d) 0.85

6. A researcher is interested in determining the percentage of all households in the U.S. that have more than one home computer. In a survey of 492 households, 27% indicated that they own more than one home computer. A 90% confidence interval for the proportion of all households in the U.S. with more than one computer is

- a) 0.236 to 0.304
- b) 0.244 to 0.296
- c) 0.240 to 0.300
- d) 0.248 to 0.292

Antwoorden?

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Tentamenvragen Finance 2

1. What happens to a company's net working capital if it buys raw materials on credit?
2. TRADE Inc. sells its products on terms of 5/20, net 40. What is the effective annual interest rate of the credit implicit in these terms of sale?
3. The management of a company is indifferent between financing new investment with retained earnings and with issuing new equity. Is this consistent with the 'pecking order theory' of capital structure?
4. The management of Pelle Ltd. sells bikes cash on delivery, but believes that sales will increase from 200 to 250 if he offers customers 1 month of free credit. Furthermore, he expects 1% of the customers to default on their payment. The average price of a bike is €1.010, and the present value of the average costs of one bike is €800. Pelle Ltd. has a cost of capital of 1% per month. Will the introduction of the credit increase Pelle's expected profits?
5. After a number of foreign acquisitions, Behold Inc. is left with a very high debt burden. Currently, Behold's debt has a market value of €180 billion, and a required rate of return of 6%. The corporate tax rate is 35%. Investors expect that this year's cash flow from operations will be €20 billion and that this level of earnings is constant and perpetual. If it were all-equity financed, the market value of Behold's equity would have been €180 billion.
 - a) Calculate the required return on Behold's equity if it would have been all-equity financed.
 - b) Calculate Behold's weighted average cost of capital.
 - c) Calculate Behold's weighted average cost of capital after the divestiture.

Inschrijven?

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