



**PEPERIKSAAN AKHIR SESI 2017/DIS(2)
FINAL EXAMINATION SESSION 2017/DEC(2)**

| | | |
|-----------------------------------|---|-------------------------|
| NAMA KURSUS (COURSE NAME) | : | FUNDAMENTALS OF FINANCE |
| KOD KURSUS (COURSE CODE) | : | MXF023 |
| PROGRAM (PROGRAMME) | : | ASASI PENGURUSAN |
| TEMPOH (DURATION) | : | 3 JAM |
| PENSYARAH (LECTURER) | : | ROHAIZAH BINTI ISMAIL |

- ARAHAN (INSTRUCTIONS) :**
1. Kertas soalan ini mengandungi **11** helaian bercetak termasuk muka hadapan.
This question paper consists of 11 printed pages including the cover page.
 2. Calon dikehendaki menjawab **SEMUA** soalan **BAHAGIAN A** di dalam **kertas OMR** dan **BAHAGIAN B** di dalam **buku jawapan** yang disediakan. Senarai Formula dan Jadual Nilai Masa Wang disertakan pada bahagian Lampiran.
Candidates are required to answer ALL questions in PART A in OMR sheet and PART B in provided answer booklet. List of Formula and Time Value of Money are attached at the Appendix.
 3. Pada akhir peperiksaan, serahkan buku jawapan.
At the end of the examination, please submit the answer booklet.
 4. Pastikan anda menulis nama, nombor matrik, nombor kad pengenalan dan kumpulan pada buku jawapan.
Please write down your name, matric number, IC number, and group on the answer booklet.

NO. MATRIK :
MATRIC NUMBER

KUMPULAN: _____
GROUP

NO. KAD PENGENALAN :
I/C @ PASSPORT NUMBER

NAMA PELAJAR: _____
STUDENT'S NAME:

**JANGAN BUKA BUKU SOALAN INI SEHINGGA DIBERITAHU
DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO**

SECTION A : MULTIPLE CHOICE QUESTIONS(15 marks)

INSTRUCTION: Choose your **CORRECT** answer. Please mark your answer in the OMR form provided.

1. Which of the following is what managers should be trying to do for the firm?
 - A. Maximize revenue
 - B. Minimize expenses
 - C. Maximize the current period's net income
 - D. Maximize shareholder's wealth

2. Which legal form of business organization offers the greatest protection to all of the owners of the firm in the event that the firm has the legal judgement against it?
 - A. sole proprietorship
 - B. limited partnership
 - C. corporation
 - D. all of the above provide the same protection

3. A low current asset ratio implies one of the following :
 - A. greater liquidity and lower risk
 - B. poor liquidity and higher risk
 - C. greater liquidity and greater risk
 - D. poor liquidity and lower risk

4. The inventory turnover of Akrab Limited was 6.67 last year. If the firm's cost of goods sold was RM1,000,000 then what is the firm's ending inventory?
 - A. RM6,670,000
 - B. RM1,000,000
 - C. RM149,925
 - D. RM66,700

5. Karib Company had sales last year of RM100,000,000 with gross fixed assets equal to RM20,000,000. If the firm has accumulated depreciation of RM5,000,000 then what is the firm's fixed assets turnover?
 - A. 5.00
 - B. 6.67
 - C. 20.00
 - D. 25.00

6. If you are trying to calculate the future invested value of a cash flow made today and invested for a set period of time, which of the following would give the greatest value?
 - A. Annual compounding
 - B. Semi-annual compounding
 - C. Quarterly compounding
 - D. Continuous compounding

7. From the following source of finance, find out the free source of finance:
 - A. Equity capital
 - B. Preference capital
 - C. Retained Earnings
 - D. Fixed assets

8. Which of the following is unsystematic risk to a firm.
 - A. Inflation
 - B. Surcharge of income-tax
 - C. Interest rate
 - D. Scarcity of raw material

9. On the recommendations of the finance manager, the board of directors will accept the project if:
 - A. Benefit Cost Ratio is less than one
 - B. Net Present Value is greater than zero
 - C. Internal Rate of Return is less than cost of capital
 - D. Pay Back Period is greater than target period

10. Which of the following is **not** a part of working capital management
- A. Credit period to buyers
 - B. Proportion of current assets to be financed by long term debt
 - C. Dividend payout
 - D. Cash credit term
11. Which of the following is **not** a risk involved in carrying inventory.
- A. Obsolescence of the product
 - B. Physical deterioration in the goods
 - C. Price fluctuation in the product
 - D. Increase in the price of raw material
12. Five C's of the credit does **not** include :
- A. collateral
 - B. character
 - C. conditions
 - D. cost
13. Which of the following is **not** an element of credit policy.
- A. Credit terms
 - B. Collection policy
 - C. Cash discount terms
 - D. Sales price
14. EOQ is the quantity that minimizes:
- A. Total Ordering Cost
 - B. Total Inventory Cost
 - C. Total Interest Cost
 - D. Safety Stock Level
15. Which of the following is **not** included in cost of inventory.
- A. Purchase Cost
 - B. Transport Cost
 - C. Import duty
 - D. Selling cost

SECTION B: PROBLEM SOLVING (85 marks)

There are FIVE (5) questions in this sections. Answer ALL questions in the answer booklet.

QUESTION 1 (17 marks)

Chacha Corporation has prepared the following information regarding two investments under consideration.

| Probability | Stock A | Stock B |
|--------------------|----------------|----------------|
| 0.1 | 13% | 14% |
| 0.3 | 12% | 11.5% |
| 0.5 | 7% | 7% |
| 0.1 | 1% | 1.2% |

- Calculate the expected return for Stock A and Stock B. (5 marks)
- Calculate the standard deviation for Stock A and Stock B. (6 marks)
- Calculate the coefficient of variation. (4 marks)
- Based on your answer, which stock should you select and why? (2 marks)

QUESTION 2 (20marks)

- Halim has decided to place RM500, which he received as a birthday gift, in a savings account paying 4% interest. How much will accrue to Halim's account in six years' time? (4 marks)
- Ramlah intends to buy a new car, the Preve for RM57,650 in cash. How many years will it take for RM20,000 to grow to RM57,650 if it is invested at 10% interest compounded annually. (4 marks)
- How much must Faridah deposit at the end of each year in a savings account earning 10% annual interest to accumulate RM10,000 at the end of six years? (4 marks)

- d. What is the present value of an investment that yields RM700 to be received in three years and RM1,400 to be received in six years, if the discount rate is 4%?
(4 marks)
- e. Sazali has decided to invest RM1,000 for two years in a savings account paying 6% interest compounded semi-annually. What is the future value of Sazali's investment?
(4 marks)

QUESTION 3 (15 marks)

Mama Company Limited is considering to invest in two different projects. The two projects required the same expenditure of RM50,000. The following are the cash flows of Mama Company Limited for five years for both projects.

| Year | Project X (RM) | Project Y (RM) |
|------|----------------|-----------------|
| 0 | (50,000) | (50,000) |
| 1 | 15,625 | 0 |
| 2 | 15,625 | 0 |
| 3 | 15,625 | 0 |
| 4 | 15,625 | 0 |
| 5 | 15,625 | 100,000 |

- a. Calculate the payback period
(4 marks)
- b. Calculate the net present value (NPV)
(8 marks)
- c. Which project should be selected? Give your reasons?
(3 marks)

QUESTION 4 (17marks)

- a. What are the motives for holding cash?
(5 marks)
- b. Zamzam Products Inc. is involved in the production of airplane parts and has the following inventory information and relationships:

Annual unit usage is 360.

The purchase price is RM5 per unit.
The ordering cost is RM50 per order.
The carrying cost is 10% of the purchase price.
The delivery time is 20 days.
The desired safety stock is equal to 100 units.

Assume a 360 days in your calculation.
Orders must be placed in round lots of 100 units.

Given the above information:

- i. Determine the economic order quantity. (3 marks)
- ii. What is the reorder point? (2 marks)
- iii. How many orders will be placed annually? (2 marks)
- iv. What is the average inventory level? (2 marks)
- v. What is the total inventory cost for the firm? (3 marks)

QUESTION 5 (16 marks)

- a. What is the main goal of a firm? (3 marks)
- b. Describe the role played by the financial manager in a company. (9 marks)
- c. List the four **(4) types** of floating in expediting the cash collection process. (4 marks)

END OF QUESTION PAPER

FORMULA

Common Financial Ratios

| | | | |
|-----------------------------|---|---------------------------|---|
| Current Ratio | $\frac{\text{Current Assets}}{\text{Current Liabilities}}$ | Inventory Turnover | $\frac{\text{Cost of Goods Sold}}{\text{Inventory}}$ |
| Quick Ratio | $\frac{\text{Current Assets} - \text{Inventory}}{\text{Current Liabilities}}$ | Receivables Turnover | $\frac{\text{Sales}}{\text{Accounts receivables}}$ |
| Total Debt Ratio | $\frac{\text{Total Debts}}{\text{Total Assets}}$ | Average Collection Period | $\frac{\text{Receivables}}{(\text{Annual Credit Sales} / 360)}$ |
| Times Interest Earned Ratio | $\frac{\text{EBIT}}{\text{Interest Expense}}$ | Total Asset Turnover | $\frac{\text{Sales}}{\text{Total Assets}}$ |
| Net Profit Margin | $\frac{\text{Net Income}}{\text{Sales}}$ | Return on Assets | $\frac{\text{Net Income}}{\text{Total Assets}}$ |
| Return on Equity | $\frac{\text{Net Income}}{\text{Total Equity}}$ | Earning Per Share | $\frac{\text{Net income}}{\text{Number of common share outstanding}}$ |

Risk & Return

Expected Return $k^{\wedge} = P_1k_1 + P_2k_2 + \dots + P_nk_n$

Standard Deviation: $\delta = \sqrt{\sum(k_i - k)^2 P(k_i)}$

The Coefficient of Variation (CV): $CV = \sigma/k^{\wedge}$

Time Value of Money Formula

TABLE 5-13 Summary of Time Value of Money Equations^a

| CALCULATION | EQUATION |
|---|---|
| Future value of a single payment | $FV_n = PV(1 + i)^n = PV(FVIF_{i,n})$ |
| Present value of a single payment | $PV = FV_n \left[\frac{1}{(1 + i)^n} \right] = FV_n(PVIF_{i,n})$ |
| Future value of an annuity | $FV \text{ of an annuity} = PMT \left[\frac{FVIF_{i,n} - 1}{i} \right] = PMT \left[\frac{(1 + i)^n - 1}{i} \right] = PMT(FVIFA_{i,n})$ |
| Present value of an annuity | $PV \text{ of an annuity} = PMT \left[\frac{1 - PVIF_{i,n}}{i} \right] = PMT \left[\frac{1 - (1 + i)^{-n}}{i} \right] = PMT(PVIFA_{i,n})$ |
| Future value of an annuity due | $FV_n(\text{annuity due}) = PMT(FVIFA_{i,n})(1 + i)$ |
| Present value of an annuity due | $PV(\text{annuity due}) = PMT(PVIFA_{i,n})(1 + i)$ |
| Future value of a single payment with nonannual compounding | $FV_n = PV \left(1 + \frac{i}{m} \right)^{mn}$ |
| Present value of a perpetuity | $PV = \frac{PP}{i}$ |

Notations: FV_n = the future value of the investment at the end of n years
 n = the number of years until payment will be received or during which compounding occurs
 i = the annual interest or discount rate
 PV = the present value of the future sum of money
 m = the number of times compounding occurs during the year
 PMT = the annuity payment deposited or received at the end of each year
 PP = the constant dollar amount provided by the perpetuity

^aRelated tables appear in Appendixes B through E at the end of the book.

Capital Budgeting

$$\text{Payback Period} = \text{BY} + \frac{\text{UC}}{\text{CF}}$$

- BY = the year before full recovery
- UC = the unrecovered cost at start of year
- CF = the cash flow during the year

Net Present Value

$$\text{NPV} = \sum \frac{\text{Annual Cash Flow}}{(1+k)^t} - \text{Initial Investment}$$

Internal Rate of Return: IRR

$$\text{Initial Investments} - \sum \frac{\text{Annual Cash Flows}}{(1+\text{IRR})^t} = 0$$

$$\text{IRR} = A + \left\{ \frac{a}{a-b} \times (B - A) \right\}$$

- A = one of the discounting rate
- B = the other discounting rate
- a = the NPV at discounting rate A
- b = the NPV at discounting rate B

Profitability Index (PI)

$$\text{PI} = \frac{\text{Present value of Future Net Cash Inflows}}{\text{Initial Outlays}}$$

Cash Management

Cash Conversion Cycle (CCC)

$$\text{CCC} = \text{AAI} + \text{ACP} - \text{APP}$$

- AAI = average age of inventory
- ACP = average collection period
- APP = average payment period.

Cash turnover

$$\text{CTO} = 360 / \text{CCC}$$

Minimum Operating Cash (MOC)

$$\text{MOC} = \text{total operating expense} / \text{CTO}$$

Inventory Management

Economic Order Quantity = $\sqrt{2SO/C}$

Re Order Point = (lead times x usage) + SS

Total Inventory Costs = $(S/\text{EOQ} \times O) + (\text{EOQ}/2 + \text{SS} \times C)$

Table A-3 Present Value Interest Factors for One Dollar Discounted at k Percent for n Periods: $PVIF_{k,n} = 1 / (1 + k)^n$

| Period | 1% | 2% | 3% | 4% | 5% | 6% | 7% | 8% | 9% | 10% | 11% | 12% | 13% | 14% | 15% | 16% | 20% | 24% | 25% | 30% |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.9901 | 0.9804 | 0.9709 | 0.9615 | 0.9524 | 0.9434 | 0.9346 | 0.9259 | 0.9174 | 0.9091 | 0.9009 | 0.8929 | 0.8850 | 0.8772 | 0.8696 | 0.8621 | 0.8333 | 0.8065 | 0.8000 | 0.7692 |
| 2 | 0.9803 | 0.9612 | 0.9426 | 0.9246 | 0.9070 | 0.8900 | 0.8734 | 0.8573 | 0.8417 | 0.8264 | 0.8116 | 0.7972 | 0.7831 | 0.7695 | 0.7561 | 0.7432 | 0.6944 | 0.6504 | 0.6400 | 0.5917 |
| 3 | 0.9706 | 0.9423 | 0.9151 | 0.8890 | 0.8638 | 0.8396 | 0.8163 | 0.7938 | 0.7722 | 0.7513 | 0.7312 | 0.7118 | 0.6931 | 0.6750 | 0.6575 | 0.6407 | 0.5787 | 0.5245 | 0.5120 | 0.4552 |
| 4 | 0.9610 | 0.9238 | 0.8885 | 0.8548 | 0.8227 | 0.7921 | 0.7629 | 0.7350 | 0.7084 | 0.6830 | 0.6587 | 0.6355 | 0.6133 | 0.5921 | 0.5718 | 0.5523 | 0.4823 | 0.4230 | 0.4096 | 0.3501 |
| 5 | 0.9515 | 0.9057 | 0.8626 | 0.8219 | 0.7835 | 0.7473 | 0.7130 | 0.6806 | 0.6499 | 0.6209 | 0.5935 | 0.5674 | 0.5428 | 0.5194 | 0.4972 | 0.4761 | 0.4019 | 0.3411 | 0.3277 | 0.2693 |
| 6 | 0.9420 | 0.8880 | 0.8375 | 0.7903 | 0.7462 | 0.7050 | 0.6663 | 0.6302 | 0.5963 | 0.5645 | 0.5346 | 0.5066 | 0.4803 | 0.4556 | 0.4323 | 0.4104 | 0.3349 | 0.2751 | 0.2621 | 0.2072 |
| 7 | 0.9327 | 0.8706 | 0.8131 | 0.7599 | 0.7107 | 0.6651 | 0.6227 | 0.5835 | 0.5470 | 0.5132 | 0.4817 | 0.4523 | 0.4251 | 0.3996 | 0.3759 | 0.3538 | 0.2781 | 0.2218 | 0.2097 | 0.1594 |
| 8 | 0.9235 | 0.8535 | 0.7894 | 0.7307 | 0.6768 | 0.6274 | 0.5820 | 0.5403 | 0.5019 | 0.4665 | 0.4339 | 0.4039 | 0.3762 | 0.3506 | 0.3269 | 0.3050 | 0.2296 | 0.1789 | 0.1678 | 0.1226 |
| 9 | 0.9143 | 0.8368 | 0.7664 | 0.7026 | 0.6446 | 0.5919 | 0.5439 | 0.5002 | 0.4604 | 0.4241 | 0.3909 | 0.3606 | 0.3329 | 0.3075 | 0.2843 | 0.2630 | 0.1938 | 0.1443 | 0.1342 | 0.0943 |
| 10 | 0.9053 | 0.8203 | 0.7441 | 0.6756 | 0.6139 | 0.5584 | 0.5083 | 0.4632 | 0.4224 | 0.3855 | 0.3522 | 0.3220 | 0.2946 | 0.2697 | 0.2472 | 0.2267 | 0.1615 | 0.1164 | 0.1074 | 0.0725 |
| 11 | 0.8963 | 0.8043 | 0.7224 | 0.6496 | 0.5847 | 0.5268 | 0.4751 | 0.4289 | 0.3876 | 0.3505 | 0.3173 | 0.2875 | 0.2607 | 0.2366 | 0.2149 | 0.1954 | 0.1346 | 0.0938 | 0.0859 | 0.0558 |
| 12 | 0.8874 | 0.7885 | 0.7014 | 0.6246 | 0.5568 | 0.4970 | 0.4440 | 0.3971 | 0.3555 | 0.3188 | 0.2858 | 0.2567 | 0.2307 | 0.2076 | 0.1869 | 0.1685 | 0.1122 | 0.0757 | 0.0687 | 0.0429 |
| 13 | 0.8787 | 0.7730 | 0.6810 | 0.6006 | 0.5303 | 0.4688 | 0.4150 | 0.3677 | 0.3262 | 0.2897 | 0.2575 | 0.2292 | 0.2042 | 0.1821 | 0.1625 | 0.1452 | 0.0935 | 0.0610 | 0.0550 | 0.0330 |
| 14 | 0.8700 | 0.7579 | 0.6611 | 0.5775 | 0.5051 | 0.4423 | 0.3878 | 0.3405 | 0.2992 | 0.2633 | 0.2320 | 0.2046 | 0.1807 | 0.1597 | 0.1413 | 0.1252 | 0.0779 | 0.0492 | 0.0440 | 0.0254 |
| 15 | 0.8613 | 0.7430 | 0.6419 | 0.5553 | 0.4810 | 0.4173 | 0.3624 | 0.3152 | 0.2745 | 0.2394 | 0.2090 | 0.1827 | 0.1599 | 0.1401 | 0.1228 | 0.1079 | 0.0649 | 0.0397 | 0.0352 | 0.0195 |
| 16 | 0.8528 | 0.7284 | 0.6232 | 0.5339 | 0.4591 | 0.3936 | 0.3387 | 0.2918 | 0.2519 | 0.2176 | 0.1883 | 0.1631 | 0.1415 | 0.1229 | 0.1069 | 0.0930 | 0.0541 | 0.0320 | 0.0281 | 0.0150 |
| 17 | 0.8444 | 0.7142 | 0.6050 | 0.5134 | 0.4363 | 0.3714 | 0.3166 | 0.2703 | 0.2311 | 0.1978 | 0.1696 | 0.1456 | 0.1252 | 0.1078 | 0.0929 | 0.0802 | 0.0451 | 0.0258 | 0.0225 | 0.0116 |
| 18 | 0.8360 | 0.7002 | 0.5874 | 0.4936 | 0.4155 | 0.3503 | 0.2959 | 0.2502 | 0.2120 | 0.1799 | 0.1528 | 0.1300 | 0.1108 | 0.0946 | 0.0808 | 0.0691 | 0.0376 | 0.0208 | 0.0180 | 0.0088 |
| 19 | 0.8277 | 0.6864 | 0.5703 | 0.4746 | 0.3957 | 0.3305 | 0.2765 | 0.2317 | 0.1945 | 0.1635 | 0.1377 | 0.1161 | 0.0981 | 0.0829 | 0.0703 | 0.0596 | 0.0313 | 0.0168 | 0.0144 | 0.0068 |
| 20 | 0.8195 | 0.6730 | 0.5537 | 0.4564 | 0.3769 | 0.3118 | 0.2584 | 0.2145 | 0.1784 | 0.1486 | 0.1240 | 0.1037 | 0.0868 | 0.0728 | 0.0611 | 0.0514 | 0.0261 | 0.0135 | 0.0115 | 0.0053 |
| 21 | 0.8114 | 0.6598 | 0.5375 | 0.4388 | 0.3580 | 0.2942 | 0.2415 | 0.1987 | 0.1637 | 0.1351 | 0.1117 | 0.0926 | 0.0768 | 0.0638 | 0.0531 | 0.0443 | 0.0217 | 0.0109 | 0.0092 | 0.0040 |
| 22 | 0.8034 | 0.6468 | 0.5219 | 0.4220 | 0.3418 | 0.2775 | 0.2257 | 0.1839 | 0.1502 | 0.1228 | 0.1007 | 0.0826 | 0.0680 | 0.0560 | 0.0462 | 0.0382 | 0.0181 | 0.0088 | 0.0074 | 0.0031 |
| 23 | 0.7954 | 0.6342 | 0.5067 | 0.4057 | 0.3255 | 0.2618 | 0.2109 | 0.1703 | 0.1378 | 0.1117 | 0.0907 | 0.0738 | 0.0601 | 0.0491 | 0.0402 | 0.0329 | 0.0151 | 0.0071 | 0.0059 | 0.0024 |
| 24 | 0.7876 | 0.6217 | 0.4919 | 0.3901 | 0.3101 | 0.2470 | 0.1971 | 0.1577 | 0.1264 | 0.1015 | 0.0817 | 0.0659 | 0.0532 | 0.0431 | 0.0349 | 0.0284 | 0.0126 | 0.0067 | 0.0057 | 0.0018 |
| 25 | 0.7798 | 0.6095 | 0.4776 | 0.3751 | 0.2953 | 0.2330 | 0.1842 | 0.1460 | 0.1160 | 0.0923 | 0.0736 | 0.0588 | 0.0471 | 0.0378 | 0.0304 | 0.0245 | 0.0105 | 0.0046 | 0.0038 | 0.0014 |
| 30 | 0.7419 | 0.5521 | 0.4120 | 0.3083 | 0.2314 | 0.1741 | 0.1314 | 0.0994 | 0.0754 | 0.0573 | 0.0437 | 0.0334 | 0.0256 | 0.0186 | 0.0151 | 0.0116 | 0.0042 | 0.0016 | 0.0012 | * |
| 35 | 0.7059 | 0.5000 | 0.3554 | 0.2534 | 0.1833 | 0.1301 | 0.0937 | 0.0676 | 0.0490 | 0.0356 | 0.0259 | 0.0189 | 0.0139 | 0.0102 | 0.0075 | 0.0055 | 0.0017 | 0.0005 | * | * |
| 40 | 0.6999 | 0.4902 | 0.3450 | 0.2437 | 0.1727 | 0.1227 | 0.0875 | 0.0626 | 0.0449 | 0.0323 | 0.0234 | 0.0169 | 0.0123 | 0.0089 | 0.0065 | 0.0048 | 0.0014 | * | * | * |
| 45 | 0.6717 | 0.4529 | 0.3066 | 0.2083 | 0.1420 | 0.0972 | 0.0668 | 0.0460 | 0.0318 | 0.0221 | 0.0154 | 0.0107 | 0.0075 | 0.0053 | 0.0037 | 0.0026 | 0.0007 | * | * | * |
| 50 | 0.6080 | 0.3715 | 0.2281 | 0.1407 | 0.0872 | 0.0543 | 0.0338 | 0.0213 | 0.0134 | 0.0085 | 0.0054 | 0.0035 | 0.0022 | 0.0014 | 0.0009 | 0.0006 | * | * | * | * |

Table A-4 Present Value Interest Factors for a One-Dollar Annuity Discounted at k Percent for n Periods: $PVIFA = [1 - 1/(1 + k)^n] / k$

| Period | 1% | 2% | 3% | 4% | 5% | 6% | 7% | 8% | 9% | 10% | 11% | 12% | 13% | 14% | 15% | 16% | 20% | 24% | 25% | 30% |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.9901 | 0.9804 | 0.9709 | 0.9615 | 0.9524 | 0.9434 | 0.9346 | 0.9259 | 0.9174 | 0.9091 | 0.9009 | 0.8929 | 0.8850 | 0.8772 | 0.8696 | 0.8621 | 0.8333 | 0.8065 | 0.8000 | 0.7692 |
| 2 | 1.9704 | 1.9416 | 1.9135 | 1.8861 | 1.8594 | 1.8334 | 1.8080 | 1.7833 | 1.7591 | 1.7355 | 1.7125 | 1.6901 | 1.6681 | 1.6467 | 1.6257 | 1.6052 | 1.5278 | 1.4568 | 1.4400 | 1.3609 |
| 3 | 2.9410 | 2.8839 | 2.8286 | 2.7751 | 2.7232 | 2.6730 | 2.6243 | 2.5771 | 2.5313 | 2.4869 | 2.4437 | 2.4018 | 2.3612 | 2.3216 | 2.2832 | 2.2459 | 2.1065 | 1.9813 | 1.9520 | 1.8161 |
| 4 | 3.9020 | 3.8077 | 3.7171 | 3.6299 | 3.5460 | 3.4651 | 3.3872 | 3.3121 | 3.2397 | 3.1699 | 3.1024 | 3.0373 | 2.9745 | 2.9137 | 2.8550 | 2.7982 | 2.5887 | 2.4043 | 2.3616 | 2.1662 |
| 5 | 4.8534 | 4.7135 | 4.5797 | 4.4518 | 4.3295 | 4.2124 | 4.1002 | 3.9927 | 3.8897 | 3.7908 | 3.6959 | 3.6048 | 3.5172 | 3.4331 | 3.3522 | 3.2743 | 2.9906 | 2.7454 | 2.6893 | 2.4356 |
| 6 | 5.7855 | 5.6014 | 5.4172 | 5.2421 | 5.0757 | 4.9173 | 4.7665 | 4.6229 | 4.4859 | 4.3553 | 4.2305 | 4.1114 | 3.9975 | 3.8887 | 3.7845 | 3.6847 | 3.3255 | 3.0205 | 2.9514 | 2.6427 |
| 7 | 6.7282 | 6.4720 | 6.2303 | 6.0021 | 5.7864 | 5.5824 | 5.3893 | 5.2064 | 5.0330 | 4.8684 | 4.7122 | 4.5638 | 4.4226 | 4.2883 | 4.1604 | 4.0386 | 3.6046 | 3.2423 | 3.1611 | 2.8021 |
| 8 | 7.6517 | 7.3255 | 7.0197 | 6.7327 | 6.4632 | 6.2098 | 5.9713 | 5.7466 | 5.5349 | 5.3349 | 5.1461 | 4.9676 | 4.7988 | 4.6389 | 4.4873 | 4.3436 | 3.8372 | 3.4212 | 3.3280 | 2.8247 |
| 9 | 8.5660 | 8.1622 | 7.8611 | 7.4353 | 7.1078 | 6.8017 | 6.5152 | 6.2469 | 5.9952 | 5.7590 | 5.5370 | 5.3282 | 5.1317 | 4.9484 | 4.7716 | 4.6065 | 4.0310 | 3.5655 | 3.4651 | 3.0190 |
| 10 | 9.4713 | 8.9826 | 8.5302 | 8.1109 | 7.7217 | 7.3601 | 7.0236 | 6.7101 | 6.4177 | 6.1446 | 5.8892 | 5.6502 | 5.4262 | 5.2161 | 5.0188 | 4.8332 | 4.1925 | 3.6819 | 3.5705 | 3.0915 |
| 11 | 10.368 | 9.7868 | 9.2526 | 8.7605 | 8.3064 | 7.8869 | 7.4987 | 7.1390 | 6.8052 | 6.4951 | 6.2065 | 5.9377 | 5.6868 | 5.4527 | 5.2337 | 5.0286 | 4.3271 | 3.7757 | 3.6564 | 3.1473 |
| 12 | 11.255 | 10.575 | 9.9540 | 9.3851 | 8.8533 | 8.3538 | 7.8927 | 7.5361 | 7.1607 | 6.8137 | 6.4924 | 6.1944 | 5.9176 | 5.6603 | 5.4206 | 5.1971 | 4.4392 | 3.8514 | 3.7251 | 3.1903 |
| 13 | 12.134 | 11.348 | 10.635 | 9.9856 | 9.3936 | 8.8527 | 8.3577 | 7.9038 | 7.4869 | 7.1034 | 6.7499 | 6.4235 | 6.1218 | 5.8424 | 5.5831 | 5.3423 | 4.5327 | 3.9124 | 3.7801 | 3.2233 |
| 14 | 13.004 | 12.106 | 11.286 | 10.563 | 9.8986 | 9.2950 | 8.7455 | 8.2442 | 7.8622 | 7.3667 | 6.9819 | 6.6282 | 6.3025 | 6.0021 | 5.7245 | 5.4675 | 4.6106 | 3.9616 | 3.8241 | 3.2487 |
| 15 | 13.865 | 12.849 | 11.938 | 11.118 | 10.380 | 9.7122 | 9.1078 | 8.5595 | 8.0607 | 7.6061 | 7.1909 | 6.8108 | 6.4624 | 6.1422 | 5.8474 | 5.5755 | 4.6755 | 4.0013 | 3.8593 | 3.2682 |
| 16 | 14.718 | 13.578 | 12.561 | 11.652 | 10.838 | 10.106 | 9.4466 | 8.8514 | 8.3126 | 7.8237 | 7.3792 | 6.9740 | 6.6039 | 6.2651 | 5.9542 | 5.6685 | 4.7296 | 4.0333 | 3.8874 | 3.2832 |
| 17 | 15.562 | 14.292 | 13.166 | 12.166 | 11.274 | 10.477 | 9.7632 | 9.1216 | 8.5436 | 8.0216 | 7.5488 | 7.1196 | 6.7291 | 6.3729 | 6.0472 | 5.7487 | 4.7746 | 4.0591 | 3.9099 | 3.2948 |
| 18 | 16.398 | 14.992 | 13.754 | 12.659 | 11.690 | 10.828 | 10.059 | 9.3719 | 8.7556 | 8.2014 | 7.7016 | 7.2497 | 6.8399 | 6.4674 | 6.1280 | 5.8178 | 4.8122 | 4.0789 | 3.9279 | 3.3037 |
| 19 | 17.226 | 15.678 | 14.324 | 13.134 | 12.085 | 11.158 | 10.336 | 9.6036 | 8.9501 | 8.3649 | 7.8393 | 7.3658 | 6.9380 | 6.5504 | 6.1982 | 5.8775 | 4.8435 | 4.0967 | 3.9424 | 3.3105 |
| 20 | 18.046 | 16.351 | 14.877 | 13.590 | 12.462 | 11.470 | 10.594 | 9.8181 | 9.1285 | 8.5136 | 7.9633 | 7.4694 | 7.0248 | 6.6231 | 6.2593 | 5.9288 | 4.8696 | 4.1103 | 3.9539 | 3.3168 |
| 21 | 18.857 | 17.011 | 15.415 | 14.029 | 12.821 | 11.764 | 10.836 | 10.017 | 9.2922 | 8.6487 | 8.0751 | 7.5620 | 7.1016 | 6.6870 | 6.3125 | 5.9731 | 4.8913 | 4.1212 | 3.9631 | 3.3198 |