

CERTIFIED PUBLIC ACCOUNTANT ADVANCED LEVEL 2 EXAMINATIONS <u>A2.1: STRATEGIC CORPORATE FINANCE</u> DATE: WEDNESDAY, 26 APRIL 2023

INSTRUCTIONS:

- 1. Time Allowed: 3 hours 45 minutes (15 minutes reading and
 - 3 hours 30 Minutes writing).
- 2. This examination has two sections: A & B.
- 3. Section A has one Compulsory Question while section B has three optional questions to choose any **two**.
- 4. In summary attempt **Three** questions.
- 5. Marks allocated to each question are shown at the end of the question.
- 6. Show all your workings where necessary.
- 7. The question paper should not be taken out of the examination room.

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SECTION A

QUESTION ONE

Terimbere Company Ltd (TCL)

Terimbere Company Ltd (TCL) is a listed company in the construction industry which specializes in the construction of roads and bridges. TCL is considering a project that would involve an investment of FRW 100 million (net of issue costs) for the purchase of a new machine and would yield annual cash inflows of FRW 55 million for each of the next three years. At the end of this period, it will have no scrape value.

The machine will attract written down allowances of 25% per annum on a reducing balance basis, with a balancing allowance at the end of the project life when the machine is scrapped.

TCL has an equity beta of 1.29 and a debt-to-equity ratio of 1:3 though this ratio will change because of the new investment. Firms in the same industry have an average equity beta of 1.24 and an average of debt-to-equity ratio of 1:2.3.

The risk-free rate is 5%, the market return is 9% and debt is risk free. The corporation tax is payable in the same year at a rate of 30% of profit. The debt beta is assumed to be zero.

The new investment will be financed as follows: Debt (redeemable in three years): 30% and Equity: 70% Issue costs are 4% on the gross equity issued and 2% on the gross debt issued.

Nyagatare Limited (NL)

NL is a listed company involved in the manufacture of dairy products such as milk, cheese, dry powder products, yogurt, and butter over the past years, NL has been making huge profits and wants to open new branches in different geographical markets in the region. This plan has been going on for the last few years. Current plans are to continue expansion and open five more branches in two years.

The company's revenue comes from the sales of products it produces through its branches via internet and it's from registered agents. The demand for NL's products is growing and it has developed a card-based loyalty program based on rewards collected through an Electronic Payment System at branches. A number of customers are signing up for this new system.

The board of the company is concerned as profits are dwindling and the share price has dropped. In addition, the company is receiving increasingly negative reports about the performance of the company.

il2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril202 il2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril202 il2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril202 il2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril2023 leparApril202

Apr **A2.1**3 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 P**age 2 of 12** April2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 April2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 April2023 IcparApril2023 IcparApril2023

12023 IcparApril2023 IcparApril2023 IcparApril2	023 IcparApril2023 IcparApril	12023 ICparApril20
12023 IcparApril2023 IcparApril2023 IcparApril2	2019 2019	2023 IcparA 2020
12023 IcparApril2023 IcparApril2023 IcparApril2	23 IcparAp FRW'000' April	2023 FRW'000'
Sales Revenue	5,633,295	7,374,620
Details ales Revenue ost of sales ross Profit dministration expenses ther operating expenses otal operating profit nterest expense rofit before tax axation rofit after tax ividends	(586,755)	(680,670)
Gross Profit	5,046,540	6,693,950
Administration expenses	(1,117,740)	(1,545,650)
Other operating expenses	(1,190,000)	(1,465,000)
Total operating expenses	23 IcparAp(2,307,740) April	(3,010,650)
Net operating profit CparApril2023 CparApril2	023 IcparApri2,738,800 Apri	2023 1 3,683,300
Interest expense 23 IcparApril 2023 IcparApril 2	(324,440)	2023 (376,350)
Profit before tax	2,414,360	3,306,950
Taxation	(594,990)	(790,290)
Profit after tax	1,819,370	2,516,660
Dividends April2023 IcparApril2023 IcparApril2	694,155	922,005

Nyagatare Limited Statement of Profit or Loss for the Year Ended 31 December.

12023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023

	2019	2020
	FRW'000'	FRW'000'
Non-current assets 3 [cparApril2023 [cparApril20	23 Icpar (pril2023,104,000 [2(3,420,000
Current assets 2023 IcparApril2023 IcparApril20	23 IcparApril2023 IcparApril20	23 IcparApril20
Inventory April2023 IcparApril2023 IcparApril20.	23 Icpar (pril2023 492,000 20	23 Icp 550,000
Accounts receivable	23 Icpar 19912023 234,600 20	246,200
Cash and cash equivalents	12,750	8,000
Total current assets	739,350	804,200
Total assets	3,843,350	4,224,200
Equity and liabilities: parApril2023 [cparApril20]	23 Icpar April2023 Icpar April20	23 IcparApril2(
Ordinary Shares (FRW 100)	23 Icpar (pril2022,000,000 20	2,000,000
Accumulated retained earnings 23 Court April 20	23 Icpar 1pril2023 415,000 20	23 Icpa505,000
Total Equity 2023 (cparApril2023 (cparApril20)	23 (29415,000	2,505,000
Long-term borrowings	781,000	950,000
Current liabilities	25 Icparapril2025 IcparApril20 23 Icparapril2023 Icparamil20	125 ICparApril20 123 IcparApril20
Trade Payables	390,000	417,000
Accruals April2023 Japar April2023 Japar April20	23 Jopan April 2023 257,350 20	352,200
Total current liabilities April2023 IcparApril20	23 Icpar (pril2023 647,350 120	23 Icpa 769,200
Total Equity and liabilities 2023 (cparApril20)	23 Icpar (pril20 3,843,350 20	23 4,224,200

12023 IcparApriA2.13 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 Page 3 of 12 3 IcparApril20. l2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023

Additional information:

- 1. The share market price of NL in 2019 and 2020 were FRW 110 and FRW 125 respectively.
 - The modified version of Altman's Z score model for corporate failure prediction for nonmanufacturing companies is given by:
 - $Z = 6.56X_1 + 3.26X_2 + 6.72X_3 + 1.05X_4$
 - where:
 - Z = The Altman's Z-score
 - X₁ = Working capital/Total assets
 - $X_2 =$ Accumulated retained earnings/Total assets
 - $X_3 = Earnings$ before interest and tax/Total assets
 - X_4 = Market value of equity / Book value of total liabilities

Karangwa Investment Company (KIC)

KIC is planning to invest in one of two different short-term portfolios of four short – financial investments. The correlation between the returns of the individual investments is believed to be negligible. The market return is estimated to be 12%, and the risk-free rate 5%.

Portfolio one

Investment	Beta Icpa	Amount invested (FRW 000)	Expected return	Total risk
(W)23 IcparAp	ril2023 11-3a	April2023 IcparApril2023 Ic 20,000	1023 IcparApri 26%	CparApr8%
IX023 IcparAp	ril2023 1.2	April2023 IcparApril2023 Ic 30,000	1023 IcparApri 24%	CparAp10%
ly023 IcparAp	ril2023 Ibda	April2023 IcparApril2023 Ic 40,000	1023 IcparApri 22%	CparApr9%
l z 023 IcparAp	12023 0.6	April2023 IcparApril2023 Ict10,000	1023 IcparApri 20%	CparApr7%

Portfolio two

Investment	Beta Cpar	Amount invested (FRW 000)	Expected return	Total risk
12023 IcparAp	0.8	pril2023 IcparApril2023 Ic 20,000	1023 IcparApril 17%	6%
l <mark>X</mark> 023 IcparAp	ril2023 Icparz	pril2023 IcparApril2023 Ic140,000	1023 IcparApril 19%	CPGrAP 8%
T <mark>y</mark> 023 IcparAp	12023 101.2	pril2023 IcparApril2023 IC 20,000	1023 IcparApri 21%	CPG A 11%
$l_{\mathbf{Z}}^{023}$ IcparAp	ril2023 Ic1.4	pril2023 Icpar April2023 IC 20,000	1023 IcparApril 15%	12%

Mudenge Investment Company (MIC)

MIC is considering investing in a security whose returns depend on three risk factors which are: Gross Domestic product (GDP), inflation, and interest rate. The risk-free rate is 5%, the Capital Asset Pricing Model (CAPM) beta is 1.2 and the required rate of return on the market is 10%.

The required rate of return of the portfolio with unit sensitivity to GDP and no sensitivity to other factors is 14%, the required rate of return of the portfolio with unit sensitivity to inflation and no sensitivity to other factors is 12% and the required rate of return of the portfolio with unit sensitivity to interest rate no sensitivity to other factors is 9%. The security has a beta of 0.6, 0.3 and 0.8 with respect to the GDP, Inflation, and interest rate portfolios respectively.

A2.1

Required:

- present value (APV) for the project for TCL and conc a) Calculate the adjusted 120 whether the project should be accepted or not. cparApril2023 Icpar (15 Marks)
- b) As a financial analyst, you have been requested by the managing director of NL to advise on the financial health of the company for the implementation of expansion strategies:
- Assess the financial health of NL for the last two years based on Altman's Z score model i. and ratio analysis. Ratios should focus on current ratio, debt ratio, inventory turnover ratio, dividend yield, and net profit margin. (16 Marks)
- ii. Discuss any two financial performance indicators to be used to monitor the future (4 Marks) performance of the NL.
- c) Estimate the return of the two portfolios for KIC using CAPM and decide which one (13 Marks) should be selected.
- d) As a financial consultant, MIC management has consulted you for advice.
- On how they can compute the required rate of return of MIC's security using arbitrage pricing model (APT) (2 Marks)

(Total: 50 Marks)

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SECTION B

QUESTION TWO

Mwendo Motors Co Ltd (MMC Ltd) is a listed company which manufactures cars, motorcycles, and bikes. It has been making huge profit from this project in Rwanda and in the region over past five years. The demand for its products has significantly increased because they produce less carbon emissions than petrol using motorcycles.

MMC Ltd is planning to make a new investment of FRW 450 million to produce electric motorcycles. Through its research and development department, it has been found that MMC Ltd will be profitable due to its increased demand and its cost saving.

The board of directors in the recent meeting proposed to issue both ordinary and preference shares and use debt to finance the new proposed investment.

Mugenzi, one of the company's shareholders, is worried of this new investment because he thinks that the cost of financing this new investment would reduce the current share price which would reduce his wealth.

Assets: Assets: April2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023	FRW "000"
Non-current assets	730,000
Current assets 12023 IcparApril2023 IcparApril2023 Icpa April2023 IcparApril202	280,000
Total assets ril2023 IcparApril2023 IcparApril2023 Icpar April2023 IcparApril202.	1,010,000
Equity and liabilities: parApril2023 IcparApril2023 Icpa April2023 IcparApril202.	3 IcparApril202
Share capital 12023 IcparApril2023 IcparApril2023 Icpa April2023 IcparApril202.	350,000
Retained earnings	250,000
Total Equity 12023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril202	600,000
Long-term borrowingspar April 2023 Icpar April 2023 Icpa April 2023 Icpar April 202	100,000
Current liabilities 23 IcparApril2023 IcparApril2023 Icpa April2023 IcparApril202.	310,000
Total liabilities 023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril202.	410,000
Total Equity and liabilities	1,010,000

MMC Ltd Extract of the Statement of Financial Position of as at 31 December 202

Additional Information

- 1. The share capital of MMC Ltd comprises of FRW 280 million and FRW 70 million of ordinary and irredeemable preference shares respectively.
- 2. MMC Ltd's ordinary shares have a nominal value of FRW 4.00 per share, an ex-dividend market value of FRW 3.50 per share. A dividend of FRW 0.42 per share for 2021 has just been paid.
- 3. The 5% preference shares of MMC Ltd have a nominal value of FRW 3.20 per share and an ex-dividend market value of FRW 2.80 per share.

The pattern of the recent dividends is as follows:

Year Icpar April 2023 Icpar April 2023 Icpar April	pril 023 IcparApril2023 IcparA Dividend per share
2018 Icpar April 2023 Icpar April 2023 Icpar April	pril 023 IcparApril2023 IcparApril2023 IcparAp0.36
2019 Icpar April 2023 Icpar April 2023 Icpar April	oril 023 IcparApril2023 IcparApril2023 IcparAp0.38
2020 Icpar April 2023 Icpar April 2023 Icpar April	pril 023 IcparApril2023 IcparApril2023 IcparAp0.40
2021 IcparApril2023 IcparApril2023 IcparAp	pril. 023 IcparApril2023 IcparApril2023 IcparAp0.42

MMC Ltd has also a 15% redeemable debt of FRW 100 each for FRW 100 million. The corporate tax rate is 30%.

Required:

- a) As a financial analyst, estimate the after-tax weighted average cost of capital based on the market and book values should use as a discount rate when appraising new investment opportunities. (13 Marks)
- b) Discuss difficulties and uncertainties in your estimates in (a). (8 Marks)
- c) Musoni Investment Group (MIG) Ltd is a company specialized in investing in different firms. MIG Lt is funded partly by equity and by debt. The yield on its five years debt is 5.8% and the yield on its ten years debt is 6.2%. MIG Ltd faces an upward sloping yield curve.

Required:

Explain the possible reasons for an upward sloping yield curve.

(4 Marks) (Total: 25 Marks)

2023 IcparApril2023 I

QUESTION THREE

Gihozo Ltd (GL) is examining the purchase of Dukuze Ltd (DL), which would become a subsidiary of (GL) if the merger goes through. DL's market-determined beta is 2.0. The risk-free rate is 5% and the market rate is 10%. DL has 15 million shares of stock priced at FRW 72.5 The corporate tax is 30% for both companies. DL will retain FRW 15 million for internal expansion every year. The growth rate after the merger will be 10%.

	2016	2017	2018	2019 2023	2020 2020
12023 IcparApril2023 IcparAp	FRW'000'	FRW'000'	FRW'000'	FRW'000'	FRW'000'
Net sales April2023 IcparAp	110,000	131,000	156,000	179,000	196,000 20
Cost of goods sold	65,000	79,000	96,000	112,000	122,000
Selling and administration expenses	12,000	14,000	15,000	17,000	18,000
Depreciation	10,000	10,000	10,000	10,000	10,000
EBIT(cparApril2023 IcparAp	23,000	28,000 Icpa	35,000 3 Ic	40,000 023	46,000
Interest ar April 2023 Icpar Ap	8,000 cparA	9,000 Icpa	10,000	11,000	11,000
EBT lcparApril2023 lcparAp	15,000	19,000	25,000	29,000	35,000
Taxes (30%)	4500	5700	7500	8700	10500
Net income	10,500	13,300	17,500	20,300	24,500

Gihozo Ltd Projected post-merger cash flows as of 31st December

Required:

- a) You are requested by the management of GL to assess whether GL will gain or lose from acquiring DL. (16 Marks)
- b) Briefly explain to the Director of Finance two benefits and one challenge of financial market integration (3 Marks)
- c) As a business consultant, you are requested by your client to discuss three forms of information efficiency. (6 Marks)

(Total: 25 Marks)

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QUESTION FOUR

Shingiro Ltd (SL), a Rwandan firm has bought goods from a Hungarian supplier and must pay HUF (Hungarian franc) 4 million in three months' time. The company Finance Director wishes to hedge against the foreign exchange risk and is considering three methods:

- 1. Using the forward exchange contract April 2023 IcparApril 2023 IcparAp
- 2. Using the money market hedge
- 3. Using a lead payment

Annual interest rate and foreign exchange rate are given below:

	FRW HUF					
	Deposit Rate	Borrowing Rate	Deposit Rate	Borrowing Rate		
1 month	7%	10.25%	10.75%	14.0%		
3 months	7%	10.75%	4.0%	4.25%		

Spot rate	FRW1: HUF	1.8625 - 1.8635
1 month forward		0.60 – 0.58 premium
3 months forward		1.80 – 1.75 premium

SL is considering raising funds through its subsidiary in the foreign market by listing its shares on the stock market. The Director of Finance has requested you to explain to them about the operations of international capital markets before the next board meeting.

Required:

a) As a finance specialist, SL relies on your expertise and has approached you to:

- i. Advise the company on the best method to use.
- ii. State two advantages of forward contracts.
- b) Discuss three types of exchange rate systems that may affect SL in purchasing goods abroad. (6 Marks)
- c) You have been requested by the management of SL to explain to them three foreign exchange risks exposures. (6 Marks)
- d) Prepare report to SL's Finance Director about the explanation of four benefits of investing in the capital market. (4 Marks)

(Total: 25 Marks)

(7 Marks)

(2 Marks)

End of question paper

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Period	1%	23 2%	3%	4%	12 5%	6%	12027%	8%	9%	10%
12023 I d p	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909
12023 120	0.980	0.961	0.943	0.925	0.907	0.890	0.873	0.857	0.842	0.826
12023 I 3 p	0.971	0.942	0.915	0.889	0.864	0.840	0.816	0.794	0.772	0.751
12023 142	0.961	0.924	0.888	0.855	0.823	0.792	0.763	0.735	0.708	0.683
12023 150	0.951	0.906	0.863	0.822	0.784	0.747	0.713	0.681	0.650	0.621
6	0.942	0.888	0.837	0.790	0.746	0.705	0.666	0.630	0.596	0.564
12025 17	0.933	0.871	0.813	0.760	0.711	0.665	0.623	0.583	0.547	0.513
8	0.923	0.853	0.789	0.731	0.677	0.627	0.582	0.540	0.502	0.467
	0.914	0.837	0.766	0.703	0.645	0.592	0.544	0.500	0.460	0.424
1202310	0.905	0.820	0.744	0.676	0.614	0.558	0.508	0.463	0.422	0.386
12023 12	0.896	0.804	0.722	0.650	0.585	0.527	0.475	0.429	0.388	0.350
12023 120	0.887	0.788	0.701	0.625	0.557	0.497	0.444	0.397	0.356	0.319
12023 130	0.879	0.773	0.681	0.601	0.530	0.469	0.415	0.368	0.326	0.290
12023 140	0.870	0.758	0.661	0.577	0.505	0.442	0.388	0.340	0.299	0.263
12023 150	0.861	0.743	0.642	0.555	0.481	0.417	0.362	0.315	0.275	0.239

Present value interest factor of FRW1 per period at i% for n periods, PVIF(i,n)

Present value interest factor of FRW1 per period at i% for n periods, PVIF(i,n)

Period	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
12023 Icpl	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833
2	0.812	0.797	0.783	0.769	0.756	0.743	0.731	0.718	0.706	0.694
12023 13n	0.731	0.712	0.693	0.675	0.658	0.641	0.624	0.609	0.593	0.579
r 12023 14	0.659	0.636	0.613	0.592	0.572	0.552	0.534	0.516	0.499	0.482
r 12023 IŜo	0.593	0.567	0.543	0.519	0.497	0.476	0.456	0.437	0.419	0.402
r 12023 16p	0.535	0.507	0.480	0.456	0.432	0.410	0.390	0.370	0.352	0.335
r 12023 17p	0.482	0.452	0.425	0.400	0.376	0.354	0.333	0.314	0.296	0.279
r 12023 I 8 0	0.434	0.404	0.376	0.351	0.327	0.305	0.285	0.266	0.249	0.233
r 12023 199	0.391	2 0.361	0.333	0.308	0.284	0.263	0.243	0.225	0.209	0.194
r 12023 10	0.352	0.322	0.295	0.270	0.247	0.227	0.208	0.191	0.176	0.162
r 12023 19p	0.317	0.287	0.261	0.237	0.215	0.195	0.178	0.162	0.148	0.135
12023 12	0.286	0.257	0.231	0.208	0.187	0.168	0.152	0.137	0.124	0.112
13	0.258	0.229	0.204	0.182	0.163	0.145	0.130	0.116	0.104	0.093
12023 14	0.232	0.205	0.181	0.160	0.141	0.125	0.111	0.099	0.088	0.078
15	0.209	0.183	0.160	0.140	0.123	0.108	0.095	0.084	0.074	0.065

12023 IcparApri<mark>A2.1</mark>3 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 IcparApril2023 Page 10 of 12 3 IcparApril20. 12023 IcparApril2023 Icpar

April	Period	arAp1%	23 1.2%	pril 23%	Icpa 4%	20235%	6%	23 7%	8%	9%	4.010%
April	12023 I tp	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909
April	2023 27	1.970	2 1.942	1.913	1.886	1.859	1.833	1.808	1.783	1.759	1.736
April	12023 3 7	2.941	2.884	2.829	2.775	2.723	2.673	2.624	2.577	2.531	2.487
April	2023 47	3.902	3.808	3.717	3.630	3.546	3.465	3.387	3.312	3.240	3.170
April	2023 5	4.853	4.713	4.580	4.452	4.329	4.212	4.100	3.993	3.890	3.791
Apra	6	5.795	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.486	4.355
Apr u	2023 7	6.728	6.472	6.230	6.002	5.786	5.582	5.389	5.206	5.033	4.868
Apr a Anvil	8	7.652	7.325	7.020	6.733	6.463	6.210	5.971	5.747	5.535	5.335
April	9	8.566	8.162	7.786	7.435	7.108	6.802	6.515	6.247	5.995	5.759
April	202310	9.471	8.983	8.530	8.111	7.722	7.360	7.024	6.710	6.418	6.145
April	202311 p	10.368	9.787	9.253	8.760	8.306	7.887	7.499	7.139	6.805	6.495
April	202312	11.255	10.575	9.954	9.385	8.863	8.384	7.943	7.536	7.161	6.814
April	202313	12.134	211.348	10.635	9.986	9.394	8.853	8.358	7.904	7.487	7.103
April	202314	13.004	12.106	11.296	10.563	9.899	9.295	8.745	8.244	7.786	7.367
April	202315	13.865	12.849	11.938	11.118	10.380	9.712	9.108	8.559	8.061	7.606

Present value interest factor of an (ordinary) annuity of FRW1 per period at i% for n periods, PVIFA(i,n).

Present value interest factor of an (ordinary) annuity of FRW1 per period at i% for n periods, PVIFA(i,n).

Period	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
12023 ICD	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833
2, 2002	1.713	1.690	1.668	1.647	1.626	1.605	1.585	1.566	1.547	1.528
12023 13	2.444	2.402	2.361	2.322	2.283	2.246	2.210	2.174	2.140	2.106
12023 14	3.102	3.037	2.974	2.914	2.855	2.798	2.743	2.690	2.639	2.589
12023 15	3.696	3.605	3.517	3.433	3.352	3.274	3.199	3.127	3.058	2.991
12023 16	4.231	24.111	3.998	3.889	3.784	3.685	3.589	3.498	3.410	3.326
12023 I 7 pi	4.712	4.564	4.423	4.288	4.160	4.039	3.922	3.812	3.706	3.605
12023 18	5.146	4.968	4.799	4.639	4.487	4.344	4.207	4.078	3.954	3.837
12023 191	5.537	5.328	5.132	4.946	4.772	4.607	4.451	4.303	4.163	4.031
12023 10	5.889	5.650	5.426	5.216	5.019	4.833	4.659	4.494	4.339	4.192
12023 190	6.207	5.938	5.687	5.453	5.234	5.029	4.836	4.656	4.486	4.327
12	6.492	6.194	5.918	5.660	5.421	5.197	4.988	4.793	4.611	4.439
13	6.750	6.424	6.122	5.842	5.583	5.342	5.118	4.910	4.715	4.533
12022 14	6.982	6.628	6.302	6.002	5.724	5.468	5.229	5.008	4.802	4.611
12023 15	7.191	6.811	6.462	6.142	5.847	5.575	5.324	5.092	4.876	4.675

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