UGANDA MARTYRS UNIVERSITY

FACULTY OF BUSINESS ADMINISTRATION AND MANAGEMENT

MBA PT II FINAL ASSESSMENT LUBAGA, MASAKA AND MBALE CAMPUSES

ACADEMIC YEAR 2022/2023

CODE: MBA 6107 MODULE: FINANCIAL MANAGEMENT

Date: May 27th, 2023.

Duration: 3 Hours

Instructions:

• Attempt any four questions

- All questions carry equal marks
- Show your workings

Question ONE

Using the funds flow model, explain, with clear examples, the role of the following institutions in the supply and demand of funds. (Each 5 marks)

- a) Bank of Uganda
- b) Uganda Securities Exchange
- c) Commercial banks
- d) Capital Markets Authority
- e) Insurance companies

Question TWO

Mr. Abiriga has just completed a short course on working capital management. He meets you at a workshop and requests you to clarity to him the following issues in the context of his poultry project.

- a. The three key elements of working capital management. (6 marks)
- b. Any five factors that he should pay attention to that influence working capital management. (10 marks)

c. Advice on an unpleasant experience he faced last year which he narrates as follows;

"I had a poultry project with 1,000 (one thousand) layers. On average the birds would lay 30 trays of eggs daily. My daily operating costs amounted to Ugx 1,500,000/=. At the beginning of the year I was selling a try of eggs at Ugx 7,000. Subsequently, the prices dropped to Ugx 5,000. I was hesitant at selling the eggs at that price because the money I would get would not be enough to cover the direct expenses which were Ugx.6,000/= per day. During that time, a buyer approached me with a price offer per try of Ugx 6,000/=. At that price, the potential buy committed to pay for the eggs after a month. Since the price was better than Ugx.5000/=, I accepted. Unfortunately I failed to raise the cash needed to buy feeds for the hens. Eventually I decided to sell them off when they had laid eggs for only six months". (9 marks)

Question THREE

YOU Ltd has provided you with the following information and seeks your advice on the appropriate investment to make. The company is trying to replace the old equipment with either Equipment model 003 or Equipment model 006. The purchase price for either equipment is Ugx. 45,000,000 and other costs of ensuring that the equipment is in operational existence amount to Ugx.5,000,000.

The old equipment was estimated to last for 6 years. Its initial cost is Ugx. 18,000,000 and the company uses the straight lime depreciation method. The equipment has operated to 3 years. YOU Ltd has found a new buyer willing to pay Ugx. 4,000,000 for the equipment. The company expects Ugx.2,000,000 increase in current assets and Ugx. 1,500,000 increase in current liabilities. The profit on the sale of non-current assets is taxed at 30%.

The cash inflows for the two equipments are given below. The salvage value for the Equipment model 003 and model 006 at the end of 5 years is Ugx.5,000,000/= and Ugax.7,000,000/= respectively. The firm's cost of capital is 12%.

Annual Cash Flows

YEAR	Equipment model 003 (Ugx in	Equipment model 006 (Ugx in
	millions)	millions)
1	5	30
2	5	10
3	30	10
4	20	10

l –	10	10	
2			
9	1 10	10	

Using the payback and NPV techniques, write a report to management indicating the equipment with the highest potential of creating wealth. (25 Marks)

Question FOUR

- a) What is scenario analysis in the context of financial management (5 marks)
- b) Explain how scenario analysis can be applied in the following situations (5 marks each)
 - i. Identifying potential risks and opportunities
 - ii. Assessing the effect of market fluctuations
- iii. Examining the wealthy creation potential of a project
- iv. Investment portfolio optimisation

Question FIVE

The finance policy of Excel group of companies states an Internal Rate of Return of 14%. You have been provided with the following information for the two subsidiaries of the company.

- a. KIM Company is estimating its Weighted Average Cost of Capital (WACC). The company has collected the following information:
- i) The capital structure is as follows

Debt 4000 bonds at \$1000 each

Ordinary share capital of 60,000 shares each at \$100

- i) The company has 20-year bonds outstanding with a 9% annual coupon that are trading at par.
- ii) The company's tax rate is 40%.
- iii) The risk-free rate is 5.5%.
- iv) The market risk premium is 5%.
- v) The stock's beta is 1.4.

Required:

Compute the company's WACC and comment on you results.

ii) Finish Company has a capital structure that consists of 70% equity and 30% debt. The company's long-term bonds have a before-tax yield to maturity of 8.4%. The company uses the DCF approach to determine the cost of equity. Finish's common stock currently trades at \$40.5 per share. The year-end dividend (D₁) is expected to be \$2.50 per share, and the dividend is expected to grow forever at a constant rate of 7%a year. The company estimates that it will have to issue new common stock to help fund this year's projects. The company's tax rate is 40%.

Required:

Compute the company's WACC and comment on you results.

iii) Write a report to the Board of directors for Excel group of companies, explaining the implications of the computed WACC for Kim and Finish companies.

Question SIX

- a. Discuss how working capital management affects risk management in an organisation like MTN (10 marks)
- b. You are provided with the following extracts from the financial statements Big LTD.

	2022 in million UGX	2021 (In million Ugx)
Sales	19	18
Purchases	13	12
Current assets		
Cash & cash equivalent	1.2	1.03
Short term investments	0.5	0.8
Receivables	0.95	0.74
Inventory	2.3	1.9
Deferred income tax asset	0.2	0.3
Prepaid expenses	0.1	0.4
Current liabilities		
Accounts payable	1.5	1.4
Accrued expenses	1.02	1.08

You are required to compute the cash operating cycle for the two years and comment on your results (15 marks)

END

Formulae schedule

Single Cash flow = Amount
$$x(1+R)^n$$

$$Annuity = Amount \, x \frac{[(1+R)^n - 1]}{R}$$

$$FV = PV(1+r)^n$$

$$Inventory\ Conversion\ Period = \frac{Inventory}{Sales\ per\ day}$$

$$Days \ Sales \ Outstanding = \frac{Receivables}{Average \ Sales \ Per \ Day} = \frac{Receivables}{Annual \ Sales/365}$$

$$Payables \ Deferral \ Period = \frac{Payables}{Purchases \ per \ day}$$

$$k_d = \frac{I + \frac{\$1,000 - N_d}{n}}{\frac{N_d + \$1,000}{2}}$$

$K_s = K_{rf} + \beta (K_m - K_{rf})$

preferred stock dividend

 $K_p = \text{market price of preferred stock } (1 - \text{flotation cost})$

Prese	Present value interest factor of \$1 per period	e inter	est fac	tor of \$	1 per i		at i% f	at i% for n periods.		PVIF(i.n)	<u>n</u>			
Period	5%	6%	7%	8%	9%	10%	11%	12%		14%	15%	16%	17%	189
_	0.952	0.943	0.935	0.926	0.917	0.909	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847
2	0.907	0.890	0.873	0.857	0.842	0.826	0.812	0.797	0.783	0.769	0.756	0.743	0.731	0.71
ω	0.864	0.840	0.816	0.794	0.772	0.751	0.731	0.712	0.693	0.675	0.658	0.641	0.624	0.60
4	0.823	0.792	0.763	0.735	0.708	0.683	0.659	0.636	0.613	0.592	0.572	0.552	0.534	0.51
5	0.784	0.747	0.713	0.681	0.650	0.621	0.593	0.567	0.543	0.519	0.497	0.476	0.456	0.43
6	0.746	0.705	0.666	0.630	0.596	0.564	0.535	0.507	0.480	0.456	0.432	0.410	0.390	0.37
7	0.711	0.665	0.623	0.583	0.547	0.513	0.482	0.452	0.425	0.400	0.376	0.354	0.333	0.31
8	0.677	0.627	0.582	0.540	0.502	0.467	0.434	0.404	0.376	0.351	0.327	0.305	0.285	0.26
9	0.645	0.592	0.544	0.500	0.460	0.424	0.391	0.361	0.333	0.308	0.284	0.263	0.243	0.22
10	0.614	0.558	0.508	0.463	0.422	0.386	0.352	0.322	0.295	0.270	0.247	0.227	0.208	0.19
1	0.585	0.527	0.475	0.429	0.388	0.350	0.317	0.287	0.261	0.237	0.215	0.195	0.178	0.16
12	0.557	0.497	0.444	0.397	0.356	0.319	0.286	0.257	0.231	0.208	0.187	0.168	0.152	0.13
13	0.530	0.469	0.415	0.368	0.326	0.290	0.258	0.229	0.204	0.182	0.163	0.145	0.130	0.11
14	0.505	0.442	0.388	0.340	0.299	0.263	0.232	0.205	0.181	0.160	0.141	0.125	0.111	0.09
15	0.481	0.417	0.362	0.315	0.275	0.239	0.209	0.183	0.160	0.140	0.123	0.108	0.095	0.08
16	0.458	0.394	0.339	0.292	0.252	0.218	0.188	0.163	0.141	0.123	0.107	0.093	0.081	0.07
17	0.436	0.371	0.317	0.270	0.231	0.198	0.170	0.146	0.125	0.108	0.093	0.080	0.069	0.06
18	0.416	0.350	0.296	0.250	0.212	0.180	0.153	0.130	0.111	0.095	0.081	0.069	0.059	0.05
19	0.396	0.331	0.277	0.232	0.194	0.164	0.138	0.116	0.098	0.083	0.070	0.060	0.051	0.04
20	0.377	0.312	0.258	0.215	0.178	0.149	0.124	0.104	0.087	0.073	0.061	0.051	0.043	0.03
25	0.295	0.233	0.184	0.146	0.116	0.092	0.074	0.059	0.047	0.038	0.030	0.024	0.020	0.01
30	0.231	0.174	0.131	0.099	0.075	0.057	0.044	0.033	0.026	0.020	0.015	0.012	0.009	0.00
35	0.181	0.130	0.094	0.068	0.049	0.036	0.026	0.019	0.014	0.010	0.008	0.006	0.004	0.00
40	0.142	0.097	0.067	0.046	0.032	0.022	0.015	0.011	0.008	0.005	0.004	0.003	0.002	0.00
50	0.087	0.054	0.034	0.021	0.013	0.009	0.005	0.003	0 000	0 001	0 001	0 001	0000	000

Preser (i,n).	nt value	interes	st factor	Period 5% 6% 7% 8% 9% 10% 11% 12% 13% 14% 15%	ordinar	y) ann	uity of	\$1 pe	r perio	d at i%	for n	period	, <u>, , , , , , , , , , , , , , , , , , </u>	riods, PVIFA
Period 1	5% 0.952	6% 0.943	7% 0.935	8% 0.926	9% 0.917	10%	11% 0.901	12% 0.893	13% 0.885	14% 0.877	15% 0.870	16% 0.862	17% 0.855	7%
2 -	1.859	1.833	1.808	1.783	1.759	1.736	1.713	1.690	1.668	1.647		1.605	1.5	85 5
ω	2.723	2.673	2.624	2.577	2.531	2.487	2.444	2.402	2.361	2.322		2.246	2.2	6
4	3.546	3.465	3.387	3.312	3.240	3.170	3.102	3.037	2.974	2.914	2.855	2.798	2.7.	43
51	4.329	4.212	4.100	3.993	3.890	3.791	3.696	3.605	3.517	3.433	3.352	3.274	3.19	99
თ	5.076	4.917	4.767	4.623	4.486	4.355	4.231	4.111	3.998	3.889	3.784	3.685	3.58	39
7	5.786	5.582	5.389	5.206	5.033	4.868	4.712	4.564	4.423	4.288		4.039	3.92	N
00	6.463	6.210	5.971	5.747	5.535	5.335	5.146	4.968	4.799	4.639	4.487	4.344	4.20	7
9	7.108	6.802	6.515	6.247	5.995	5.759	5.537	5.328	5.132	4.946	4.772	4.607	4.45	_
10	7.722	7.360	7.024	6.710	6.418	6.145	5.889	5.650	5.426	5.216	5.019	4.833	4.65	9
1	8.306	7.887	7.499	7.139	6.805	6.495	6.207	5.938	5.687	5.453	5.234	5.029	4.83	ഗ
12	8.863	8.384	7.943	7.536	7.161	6.814	6.492	6.194	5.918	5.660	5.421	5.197	4.98	œ
13	9.394	8.853	8.358	7.904	7.487	7.103	6.750	6.424	6.122	5.842	5.583	5.342	5.11	∞
14	9.899	9.295	8.745	8.244	7.786	7.367	6.982	6.628	6.302	6.002	5.724	5.468	5.22	9
15	10.380	9.712	9.108	8.559	8.061	7.606	7.191	6.811	6.462	6.142	5.847	5.575	5.32	4
16	10.838	10.106	9.447	8.851	8.313	7.824	7.379	6.974	6.604	6.265	5.954	5.668	5.40	S
17	11.274	10.477	9.763	9.122	8.544	8.022	7.549	7.120	6.729	6.373	6.047	5.749	5.47	G
18	11.690	10.828	10.059	9.372	8.756	8.201	7.702	7.250	6.840	6.467	6.128	5.818	5.53	42
19	12.085	11.158	10.336	9.604	8.950	8.365	7.839	7.366	6.938	6.550	6.198	5.877	5.58	42
20	12.462	11.470	10.594	9.818	9.129	8.514	7.963	7.469	7.025	6.623	6.259	5.929	5.62	æ
25	14.094	12.783	11.654	10.675	9.823	9.077	8.422	7.843	7.330	6.873	6.464	6.097	5.76	0)
30	15.372	13.765	12.409	11.258	10.274	9.427	8.694	8.055	7.496	7.003	6.566	6.177	5.82	9
35	16.374	14.498	12.948	11.655	10.567	9.644	8.855	8.176	7.586	7.070	6.617	6.215	5.85	w
40	17.159	15.046	13.332	11 925	10 757	0770	8.951					2000		
	0 0 0	100		1.040		3.113	0.00	8.244	7.634	7.105	740.0	0.200	5.87	-

uture	value	interest	factor of \$1 per	f \$1 pe		period at i% for r	or n peric	า periods, FVII	(i,n).							
riod	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
_	1.050	1.060	1.070	1.080	1.090	1.100	1.110	1.120	1.130	1.140	1.150	1.160	1.170	1.180	1.190	1.200
2	1.103	1.124	1.145	1.166	1.188	1.210	1.232	1.254	1.277	1.300	1.323	1.346	1.369	1.392	1.416	1.440
ω	1.158	1.191	1.225	1.260	1.295	1.331	1.368	1.405	1.443	1.482	1.521	1.561	1.602	1.643	1.685	1.728
4	1.216	1.262	1.311	1.360	1.412	1.464	1.518	1.574	1.630	1.689	1.749	1.811	1.874	1.939	2.005	2.074
თ	1.276	1.338	1.403	1.469	1.539	1.611	1.685	1.762	1.842	1.925	2.011	2.100	2.192	2.288	2.386	2.488
თ	1.340	1.419	1.501	1.587	1.677	1.772	1.870	1.974	2.082	2.195	2.313	2.436	2.565	2.700	2.840	2.986
7	1.407	1.504	1.606	1.714	1.828	1.949	2.076	2.211	2.353	2.502	2.660	2.826	3.001	3.185	3.379	3.583

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	50	40	35	30	25	20	19	8	17	6	15	14	ವ	12	=	10	9	<u>∞</u>	
1	11.467	7.040	5.516	4.322	3.386	2.653	2.527	2.407	2.292	2.183	2.079	1.980	1.886	1.796	1.710	1.629	1.551	1.477	
	18.420	10.286	7.686	5.743	4.292	3.207	3.026	2.854	2.693	2.540	2.397	2.261	2.133	2.012	1.898	1.791	1.689	1.594	
	29.457	14.974	10.677	7.612	5.427	3.870	3.617	3.380	3.159	2.952	2.759	2.579	2.410	2.252	2.105	1.967	1.838	1.718	
	46.902	21.725	14.785	10.063	6.848	4.661	4.316	3.996	3.700	3.426	3.172	2.937	2.720	2.518	2.332	2.159	1.999	1.851	
,	74.358	31.409	20.414	13.268	8.623	5.604	5.142	4.717	4.328	3.970	3.642	3.342	3.066	2.813	2.580	2.367	2.172	1.993	
:	117.391	45.259	28.102	17.449	10.835	6.727	6.116	5.560	5.054	4.595	4.177	3.797	3.452	3.138	2.853	2.594	2.358	2.144	
	184.565	65.001	38.575	22.892	13.585	8.062	7.263	6.544	5.895	5.311	4.785	4.310	3.883	3.498	3.152	2.839	2.558	2.305	
	289.002	93.051	52.800	29.960	17.000	9.646	8.613	7.690	6.866	6.130	5.474	4.887	4.363	3.896	3.479	3.106	2.773	2.476	
	450.736	132.782	72.069	39.116	21.231	11.523	10.197	9.024	7.986	7.067	6.254	5.535	4.898	4.335	3.836	3.395	3.004	2.658	
					26.462						l								
	1,083.657	267.864	133.176	66.212	32.919	16.367	14.232	12.375	10.761	9.358	8.137	7.076	6.153	5.350	4.652	4.046	3.518	3.059	
	1,670.704			85.850					12.468						5.117				
	2,566.215	533.869	243.503	111.065						12.330						4.807			
	3,927.357			_						14.129									
	5,988.914	1,051.668	440.701	184.675						16.172						5.695			

18.488
22.186
26.623
31.948
38.338
95.396
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9,100.438

4.300 5.160 6.192 7.430 8.916 10.699 12.839

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12	⇉	10	9	00	7	6	ۍ.	4	ω	2	_	Period	_
15.917	14.207	12.578	11.027	9.549	8.142	6.802	5.526	4.310	3.153	2.050	1.000	5%	ruture value
16.870	14.972	13.181	11.491	9.897	8.394	6.975	5.637	4.375	3.184	2.060	1.000	6%	value
17.888	15.784	13.816	11.978	10.260	8.654	7.153	5.751	4.440	3.215	2.070	1.000	7%	nieresi
18.977	16.645	14.487	12.488	10.637	8.923	7.336	5.867	4.506	3.246	2.080	1.000	8%	ractor
20.141	17.560	15.193	13.021	11.028	9.200	7.523	5.985	4.573	3.278	2.090	1.000	9%	or an o
21.384	18.531	15.937	13.579	11.436	9.487	7.716	6.105	4.641	3.310	2.100	1.000	10%	interest factor of an ordinary
22.713	19.561	16.722	14.164	11.859	9.783	7.913	6.228	4.710	3.342	2.110	1.000	11%	/ annui
24.133	20.655	17.549	14.776	12.300	10.089	8.115	6.353	4.779	3.374	2.120	1.000	12%	y or \$1
25.650	21.814	18.420	15.416	12.757	10.405	8.323	6.480	4.850	3.407	2.130	1.000	13%	annuity of \$1 per period at 1% for n
27.271	23.045	19.337	16.085	13.233	10.730	8.536	6.610	4.921	3.440	2.140	1.000	14%	riod at
29.002	24.349	20.304	16.786	13.727	11.067	8.754	6.742	4.993	3.473	2.150	1.000	15%	1% TOF T
30.850	25.733	21.321	17.519	14.240	11.414	8.977	6.877	5.066	3.506	2.160	1.000	16%	period
32.824	27.200	22.393	18.285	14.773	11.772	9.207	7.014	5.141	3.539	2.170	1.000	17%	S, FVII
34.931	9 25.733 27.200 28.755	23.521	19.086	15.327	12.142	9.442	7.154	5.215	3.572	2.180	1.000	18%	-A(I,n).

40	35	30	25	20	19	18	17	16	15	14	13
120.80	90.320	66.439	47.727	33.066	30.539	28.132	25.840	23.657	21.579	19.599	17.713
154.76	111.43	79.058	54.865	36.786	33.760	30.906	28.213	25.673	23.276	21.015	18.882
199.64	138.24	94.461	63.249	40.995	37.379	33.999	30.840	27.888	25.129	22.550	20.141
259.06	172.32	113.28	73.106	45.762	41.446	37.450	33.750	30.324	27.152	24.215	21.495
337.88	215.71	136.31	84.701	51.160	46.018	41.301	36.974	33.003	29.361	26.019	22.953
442.59	271.02	164.49	98.347	57.275	51.159	45.599	40.545	35.950	31.772	27.975	24.523
581.83	341.59	199.02	114.41	64.203	56.939	50.396	44.501	39.190	34.405	30.095	26.212
767.09	431.66	241.33	133.33	72.052	63.440	55.750	48.884	42.753	37.280	32.393	28.029
1,013.7	546.68	293.20	155.62	80.947	70.749	61.725	53.739	46.672	40.417	34.883	29.985
1,342.0	693.57	356.79	181.87	91.025	78.969	68.394	59.118	50.980	43.842	37.581	32.089
1,779.1	881.17	434.75	212.79	102.44	88.212	75.836	65.075	55.717	47.580	40.505	34.352
2,360.8	1,120.7	530.31	249.21	115.38	98.603	84.141	71.673	60.925	51.660	43.672	36.786
3,134.5	1,426.5	647.44	292.10	130.03	110.28	93.406	78.979	66.649	56.110	47.103	39.404
4,163.2	1,816.7	790.95	342.60	146.63	123.41	103.74	87.068	72.939	60.965	50.818	42.219
	154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 98.603 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	30.906 33.999 37.450 41.301 45.599 50.396 55.750 61.725 68.394 75.836 84.141 33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 98.603 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 693.57 881.17 1,120.7 154.76 199.64 259.06 337.88 442.59 581.83 767.09 1,013.7 1,342.0 1,779.1 2,360.8	28.213 30.840 33.750 36.974 40.545 44.501 48.884 53.739 59.118 65.075 71.673 30.906 33.999 37.450 41.301 45.599 50.396 55.750 61.725 68.394 75.836 84.141 33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 98.603 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24 172.32 215.71 271.02 341.59 431.66 546.68 693.57 881.17 1,120.7 154.76 199.64	25.673 27.888 30.324 33.003 35.950 39.190 42.753 46.672 50.980 55.717 60.925 28.213 30.840 33.750 36.974 40.545 44.501 48.84 53.739 59.118 65.075 71.673 30.906 33.999 37.450 41.301 45.599 50.396 55.750 61.725 68.394 75.836 84.141 33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 98.603 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 212.79 249.21 79.058 94.461 113.28 136.31 164.49 199.02 241.33 293.20 356.79 434.75 530.31 111.43 138.24	23.276 25.129 27.152 29.361 31.772 34.405 37.280 40.417 43.842 47.580 51.660 25.673 27.888 30.324 33.003 35.950 39.190 42.753 46.672 50.980 55.717 60.925 28.213 30.840 33.750 36.974 40.545 44.501 48.884 53.739 59.118 65.075 71.673 30.906 33.999 37.450 41.301 45.599 50.396 55.750 61.725 68.394 75.836 84.141 33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 98.603 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 115.38 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87 242.21 79.058 94.461 113.28	21.015 22.550 24.215 26.019 27.975 30.095 32.393 34.883 37.581 40.505 23.276 25.129 27.152 29.361 31.772 34.405 37.280 40.417 43.842 47.580 25.673 27.888 30.324 33.003 35.950 39.190 42.753 46.672 50.980 55.717 28.213 30.840 33.750 36.974 40.545 44.501 48.884 53.739 59.118 65.075 30.906 33.999 37.450 41.301 45.599 50.396 55.750 61.725 68.394 75.836 33.760 37.379 41.446 46.018 51.159 56.939 63.440 70.749 78.969 88.212 36.786 40.995 45.762 51.160 57.275 64.203 72.052 80.947 91.025 102.44 54.865 63.249 73.106 84.701 98.347 114.41 133.33 155.62 181.87