



THE OPEN UNIVERSITY OF SRI LANKA  
 POSTGRADUATE DIPLOMA/ MASTERS IN TECHNOLOGY IN APPAREL  
 PRODUCTION AND MANAGEMENT  
 FINAL EXAMINATION – 2012/ 2013  
 TTM7135- MANAGEMENT ACCOUNTING AND FINANCIAL MANAGEMENT  
 DURATION - THREE HOURS

Date: 27th July 2013

TIME: 0930 – 1230 Hrs

**Instructions:**

This paper consists of seven (07) questions in three Sections – A, B and C

Answer at least one question from each section.

Total number of questions to be answered. Five (05) questions only!

Time allowed Three (03) hours.

Begin each answer on a new page.

**Section – A**

1. a) Briefly explain in brief what is meant by accounting and its prime objective. (2 marks)
- b) State four (04) interested parties of accounting information, and their information needs.. (4 marks)
- c) State four (04) key qualitative characteristics of accounting information. (4 marks)
- d) Explain the relationship that exists among shareholders, directors and auditors. (4 marks)
- e) As per the conceptual framework of financial accounting, briefly explain with suitable examples, the following elements of financial statements. (6 marks)
  - a. Assets
  - b. Liabilities
  - c. Equity

(Total 20 marks)

2. Statement of financial position (Balance Sheet) of Gamma Ltd as at 01 April 2013 is given below

<b>Assets</b>	<i>(Rs. '000)</i>
<b>Non-Current Assets</b>	
Machinery	9,000
<b>Current Assets</b>	
Stock	2,000
Debtors	1,000
Cash	500
<b>Total Assets</b>	<u>12,500</u>
<b>Equity and Liabilities</b>	
Capital	10,000
<b>Noncurrent liabilities</b>	
Bank loan	2,000
<b>Current Liabilities</b>	
Creditors	500
<b>Total Equity and Liabilities</b>	<u>12,500</u>

Transactions occurred during the month of April 2013 are given below.

1. Purchased goods for Rs.200,000
2. Obtained a bank loan of Rs.1,000,000.
3. Purchased a machine for Rs.1,200,000.
4. Purchased goods on credit for Rs.500,000
5. Goods sold for Rs.1,200,000 (cost of the goods was Rs.600,000)
6. Goods sold on credit Rs.700,000 (cost of the goods was Rs.400,000)
7. Cash paid to creditors Rs.500,000
8. Cash received from trade debtors Rs.900,000
9. Administrative expenses paid Rs.150,000.
10. Loan installment paid Rs.150,000 including interest of Rs.50,000.
11. Depreciation of machine for the month is 2% on cost.
12. Dividend paid Rs.500,000

**Required:**

- a. Record the open balances and the above transactions in the following accounting equation. (6 marks)

$$\text{Machinery} + \text{Stock} + \text{Debtors} + \text{Cash} = \text{Equity} + \text{Bank Loan} + \text{Creditors}$$

- i. Statement of income of Gamma Ltd for the month ended 30 April 2013. (8 marks)
  - ii. Statement of financial position of Gamma Ltd as at 30 April 2013. (6 marks)
- (Total 20 marks)**

### Section – B

3. a. Briefly explain the difference between the following terms,

- i. Direct costs and Indirect costs
- ii. Fixed cost and Variable costs
- iii. Controllable costs and Uncontrollable costs

(6 marks)

b. Following information is relevant to Lanka Apparel PLC that produced 5000 shirts during the month ended 31 May 2013

	(in Rs.)
Cost of fabric	2,500,000
Machine operators salary	800,000
Other direct costs	200,000
Depreciation of machine	200,000
Factory rent	100,000
Electricity	50,000
Factory maintenance	100,000
Other manufacturing overhead	50,000
Sales and distribution overhead cost	350,000
Administrative overhead	250,000
Finance cost	200,000

**Other information**

- Company keeps 50% gross mark up on cost of a shirt
- Number of shirts sold during the period 4000

**You are Required to,**

- i. Calculate the Manufacturing cost per shirt
- ii. Calculate the Selling price per shirt
- iii. Calculate the Value of the closing stock of shirts (at cost)
- iv. Prepare the Statement of income for the month ended 31 May 2013

(14 marks)

(Total 20 marks)

4. a. Briefly explain the following concepts with suitable graphical illustrations

- i. Breakeven Point
- ii. Margin of Safety

(6 marks)

- b. Following information relates to Super Star Apparel Ltd that engages in manufacturing T-shirts.

	(in Rs.)
Cost of fabric per T-shirt	260
Sales commission per T-shirt	40
Machine operators monthly salary	250,000
Production managers salary	100,000
Marketing staff monthly salary	200,000
Administrative expenses	150,000
Depreciation of machinery per month	100,000
Selling price per T-shirt	500
Budgeted number of T-Shirts to be produced during the month	10,000

**Required**

1. Variable cost per unit.
  2. Contribution per unit
  3. Total monthly fixed cost
  4. BEP in units and value
  5. Margin of safety
  6. Income statement at the budgeted output level
  7. Number of units to be sold to make a net profit of Rs.1,000,000 **(14 marks)**
- (Total 20 marks)**

**Section – C**

5. a. Briefly explain what is meant by “time value of money” and the determinants of time value. **(3 marks)**
- b. Assume that you deposit Rs. 100,000 today in a bank account that pays interest at a rate of 12% per annum and you expect to keep the deposit for five (5) years. What is the value of your deposit at the end of the fifth (5<sup>th</sup>) year if the bank compounds interest;
- i. Annually.
  - ii. Monthly. **(4 marks)**
- c. Your uncle has promised you to offer Rs. 500,000 in four (04) years times or Rs. 900,000 in ten (10) years times.
- i. Which option you prefer to accept if the market interest rate is 12%?
  - ii. What is the interest rate at which you are indifferent between the two options? **(4 marks)**

d. Assume that you are expecting to obtain a bank loan of Rs.500,000 today. You were able to negotiate with the bank management to settle the loan in 5 equal annual installments and the bank loan interest rate is 18%.

- i. What is the value of the annual loan installment that you should pay the bank
  - ii. Prepare the loan repayment schedule for the five years **(5 marks)**
- (Total 20 marks)**

6. a. Following information is relevant for a particular project.

Initial investment      Rs.100,000  
 Project life              5 years  
 Salable value of the investment (Scrap value) at the end of the year 5. Rs.40,000  
 Project cost of capital 12%  
 Estimated future net **operating** cash flows are given below

Year	1	2	3	4	5
Net Cash flows	25,000	35,000	40,000	45,000	40,000

**Required**

- i. Project payback period
- ii. Net present value **(4 marks)**

a. Following information is relevant for a particular project.

Initial investment      Rs.160,000  
 Project life              6 years  
 Project cost of capital is 10%  
 It is expected that the project will result an annual constant net operating cash flow of Rs.60,000 throughout the project life

**Required**

1. Net present value
2. Based on your answer for the part 1, do you recommend the project to be accepted? **(4 marks)**

b. Gamma PLC expects to undertake an investment in a new project. The relevant information for the project is given below

- Initial investment Rs.400 million
- Scrap value Rs.100 million
- Investment in working capital at the beginning of year 2 is Rs.50 million
- Project life 5 years
- Expected annual sales units 50,000
- Selling price per unit Rs.7,000
- Variable cost per unit Rs.3,000
- Annual fixed overhead cost (Excluding depreciation) Rs.80 million
- Project is exempted from taxation
- 80% of the Working capital will be realized at the end of the project
- Project cost of capital is 16%

**Required,**

1. Project net cash flow
2. Net present value of the project

**(12 marks)**  
**(Total 20 marks)**

7. a. Mr. Silva expects to buy shares of Alpha Ltd and hold those for a period of one year. It is expected that Alpha will pay a dividend per share of Rs. 2.50 for the next year. It is also expected that the market price per share at the end of the next year will be Rs.90. If Mr. Silva's expected rate of return is 10%, what is the price that Mr. would prefer to offer for a share of Alpha Ltd? If Alpha's shares are currently traded in the market at Rs. 76 would you recommend Mr. Silva to buy them? **(6 marks)**
- b. Mr Perera expects to buy shares of Beta Ltd that will pay a dividend per share of Rs. 5, Rs.6 and Rs.8 respectively for the next three years. He expects to sell those shares at the end of the third year at Rs. 48 a share. If Mr. Perera's expected rate of return is 10% what is the price that he would prefer to offer for this share? If Beta shares are currently traded in the market at Rs. 65 a share, do you recommend Mr. Perera to buy them. **(6 marks)**
- c. Bravo Ltd. has recently paid a dividend per share of Rs.5. It is expected that this dividend will be constant in the future for indefinite period. If the investors average expected rate of return is 10% what is the price per share of Bravo Ltd. **(4 marks)**
- d. Charley Ltd. has recently paid a dividend per share of Rs.4 for the previous year. It is expected that the company's dividend will grow at a constant rate of 5%. If the investors average expected rate of return is 10%, what is the price per share of Charley Ltd.

**(4 marks)**

**(Total 20 marks)**

Present value interest factor of \$1 per period at i% for n periods, PVIF(i,n).																		
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%
1	0.990	0.980	0.971	0.962	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	0.980	0.961	0.943	0.925	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	0.718
3	0.971	0.942	0.915	0.889	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	0.609
4	0.961	0.924	0.888	0.855	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	0.516
5	0.951	0.906	0.863	0.822	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	0.437
6	0.942	0.888	0.837	0.790	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	0.370
7	0.933	0.871	0.813	0.760	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	0.314
8	0.923	0.853	0.789	0.731	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	0.266
9	0.914	0.837	0.766	0.703	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	0.225
10	0.905	0.820	0.744	0.676	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	0.191
11	0.896	0.804	0.722	0.650	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	0.162
12	0.887	0.788	0.701	0.625	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	0.137
13	0.879	0.773	0.681	0.601	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	0.116
14	0.870	0.758	0.661	0.577	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	0.099
15	0.861	0.743	0.642	0.555	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	0.084
16	0.853	0.728	0.623	0.534	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	0.071
17	0.844	0.714	0.605	0.513	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	0.060
18	0.836	0.700	0.587	0.494	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	0.051
19	0.828	0.686	0.570	0.475	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	0.043
20	0.820	0.673	0.554	0.456	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	0.037
25	0.780	0.610	0.478	0.375	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	0.016
30	0.742	0.552	0.412	0.308	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	0.007
35	0.706	0.500	0.355	0.253	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	0.003
40	0.672	0.453	0.307	0.208	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	0.001
50	0.608	0.372	0.228	0.141	0.087	0.054	0.034	0.021	0.013	0.009	0.005	0.003	0.002	0.001	0.001	0.001	0.000	0.000

Future value interest factor of \$1 per period at i% for n periods, FVIF(i,n).																		
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	
1	1.010	1.020	1.030	1.040	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	
2	1.020	1.040	1.061	1.082	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	
3	1.030	1.061	1.093	1.125	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	
4	1.041	1.082	1.126	1.170	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	
5	1.051	1.104	1.159	1.217	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	
6	1.062	1.126	1.194	1.265	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	
7	1.072	1.149	1.230	1.316	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	
8	1.083	1.172	1.267	1.369	1.477	1.594	1.718	1.851	1.993	2.144	2.305	2.476	2.658	2.853	3.059	3.278	3.511	
9	1.094	1.195	1.305	1.423	1.551	1.689	1.838	1.999	2.172	2.358	2.558	2.773	3.004	3.252	3.518	3.803	4.108	
10	1.105	1.219	1.344	1.480	1.629	1.791	1.967	2.159	2.367	2.594	2.839	3.106	3.395	3.707	4.046	4.411	4.807	
11	1.116	1.243	1.384	1.539	1.710	1.898	2.105	2.332	2.580	2.853	3.152	3.479	3.836	4.226	4.652	5.117	5.624	
12	1.127	1.268	1.426	1.601	1.796	2.012	2.252	2.518	2.813	3.138	3.498	3.896	4.335	4.818	5.350	5.936	6.580	
13	1.138	1.294	1.469	1.665	1.886	2.133	2.410	2.720	3.066	3.452	3.883	4.363	4.898	5.492	6.153	6.886	7.699	
14	1.149	1.319	1.513	1.732	1.980	2.261	2.579	2.937	3.342	3.797	4.310	4.887	5.535	6.261	7.076	7.988	9.007	
15	1.161	1.346	1.558	1.801	2.079	2.397	2.759	3.172	3.642	4.177	4.785	5.474	6.254	7.138	8.137	9.266	10.539	
16	1.173	1.373	1.605	1.873	2.183	2.540	2.952	3.426	3.970	4.595	5.311	6.130	7.067	8.137	9.358	10.748	12.330	
17	1.184	1.400	1.653	1.948	2.292	2.693	3.159	3.700	4.328	5.054	5.895	6.866	7.986	9.276	10.761	12.468	14.426	
18	1.196	1.428	1.702	2.026	2.407	2.854	3.380	3.996	4.717	5.560	6.544	7.690	9.024	10.575	12.375	14.463	16.879	
19	1.208	1.457	1.754	2.107	2.527	3.026	3.617	4.316	5.142	6.116	7.263	8.613	10.197	12.056	14.232	16.777	19.748	
20	1.220	1.486	1.806	2.191	2.653	3.207	3.870	4.661	5.604	6.727	8.062	9.646	11.523	13.743	16.367	19.461	23.106	



Future value interest factor of an ordinary annuity of \$1 per period at i% for n periods,  
FVIFA(i,n).

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%
1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	2.010	2.020	2.030	2.040	2.050	2.060	2.070	2.080	2.090	2.100	2.110	2.120	2.130	2.140	2.150	2.160	2.170	2.180
3	3.030	3.060	3.091	3.122	3.153	3.184	3.215	3.246	3.278	3.310	3.342	3.374	3.407	3.440	3.473	3.506	3.539	3.572
4	4.060	4.122	4.184	4.246	4.310	4.375	4.440	4.506	4.573	4.641	4.710	4.779	4.850	4.921	4.993	5.066	5.141	5.215
5	5.101	5.204	5.309	5.416	5.526	5.637	5.751	5.867	5.985	6.105	6.228	6.353	6.480	6.610	6.742	6.877	7.014	7.154
6	6.152	6.308	6.468	6.633	6.802	6.975	7.153	7.336	7.523	7.716	7.913	8.115	8.323	8.536	8.754	8.977	9.207	9.442
7	7.214	7.434	7.662	7.898	8.142	8.394	8.654	8.923	9.200	9.487	9.783	10.089	10.405	10.730	11.067	11.414	11.772	12.142
8	8.286	8.583	8.892	9.214	9.549	9.897	10.260	10.637	11.028	11.436	11.859	12.300	12.757	13.233	13.727	14.240	14.773	15.327
9	9.369	9.755	10.159	10.583	11.027	11.491	11.978	12.488	13.021	13.579	14.164	14.776	15.416	16.085	16.786	17.519	18.285	19.086
10	10.462	10.950	11.464	12.006	12.578	13.181	13.816	14.487	15.193	15.937	16.722	17.549	18.420	19.337	20.304	21.321	22.393	23.521
11	11.567	12.169	12.808	13.486	14.207	14.972	15.784	16.645	17.560	18.531	19.561	20.655	21.814	23.045	24.349	25.733	27.200	28.755
12	12.683	13.412	14.192	15.026	15.917	16.870	17.888	18.977	20.141	21.384	22.713	24.133	25.650	27.271	29.002	30.850	32.824	34.931
13	13.809	14.680	15.618	16.627	17.713	18.882	20.141	21.495	22.953	24.523	26.212	28.029	29.985	32.089	34.352	36.786	39.404	42.219
14	14.947	15.974	17.066	18.292	19.599	21.015	22.550	24.215	26.019	27.975	30.095	32.393	34.883	37.581	40.505	43.672	47.103	50.818
15	16.097	17.293	18.599	20.024	21.579	23.276	25.129	27.152	29.361	31.772	34.405	37.280	40.417	43.842	47.580	51.660	56.110	60.965
16	17.258	18.639	20.157	21.825	23.657	25.673	27.888	30.324	33.003	35.950	39.190	42.753	46.672	50.980	55.717	60.925	66.649	72.939
17	18.430	20.012	21.762	23.698	25.840	28.213	30.840	33.750	36.974	40.545	44.501	48.884	53.739	59.118	65.075	71.673	78.979	87.068
18	19.615	21.412	23.414	25.645	28.132	30.906	33.999	37.450	41.301	45.599	50.396	55.750	61.725	68.394	75.836	84.141	93.406	103.74
19	20.811	22.841	25.117	27.671	30.539	33.760	37.379	41.446	46.018	51.159	56.939	63.440	70.749	78.969	88.212	98.603	110.28	123.41
20	22.019	24.297	26.870	29.778	33.066	36.786	40.995	45.762	51.160	57.275	64.203	72.052	80.947	91.025	102.44	115.38	130.03	146.63

Present value interest factor of an (ordinary) annuity of \$1 per period at 1% for n periods,  $PVIFA(i, n)$ .

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%
1	0.990	0.980	0.971	0.962	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
2	1.970	1.942	1.913	1.886	1.859	1.833	1.808	1.783	1.759	1.736	1.713	1.690	1.668	1.647	1.626	1.605	1.585
3	2.941	2.884	2.829	2.775	2.723	2.673	2.624	2.577	2.531	2.487	2.444	2.402	2.361	2.322	2.283	2.246	2.210
4	3.902	3.808	3.717	3.630	3.546	3.465	3.387	3.312	3.240	3.170	3.102	3.037	2.974	2.914	2.855	2.798	2.743
5	4.853	4.713	4.580	4.452	4.329	4.212	4.100	3.993	3.890	3.791	3.696	3.605	3.517	3.433	3.352	3.274	3.199
6	5.795	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.486	4.355	4.231	4.111	3.998	3.889	3.784	3.685	3.589
7	6.728	6.472	6.230	6.002	5.786	5.582	5.389	5.206	5.033	4.868	4.712	4.564	4.423	4.288	4.160	4.039	3.922
8	7.652	7.325	7.020	6.733	6.463	6.210	5.971	5.747	5.535	5.335	5.146	4.968	4.799	4.639	4.487	4.344	4.207
9	8.566	8.162	7.786	7.435	7.108	6.802	6.515	6.247	5.995	5.759	5.537	5.328	5.132	4.946	4.772	4.607	4.451
10	9.471	8.983	8.530	8.111	7.722	7.360	7.024	6.710	6.418	6.145	5.889	5.650	5.426	5.216	5.019	4.833	4.659
11	10.368	9.787	9.253	8.760	8.306	7.887	7.499	7.139	6.805	6.495	6.207	5.938	5.687	5.453	5.234	5.029	4.836
12	11.255	10.575	9.954	9.385	8.863	8.384	7.943	7.536	7.161	6.814	6.492	6.194	5.918	5.660	5.421	5.197	4.988
13	12.134	11.348	10.635	9.986	9.394	8.853	8.358	7.904	7.487	7.103	6.750	6.424	6.122	5.842	5.583	5.342	5.118
14	13.004	12.106	11.296	10.563	9.899	9.295	8.745	8.244	7.786	7.367	6.982	6.628	6.302	6.002	5.724	5.468	5.229
15	13.865	12.849	11.938	11.118	10.380	9.712	9.108	8.559	8.061	7.606	7.191	6.811	6.462	6.142	5.847	5.575	5.324
16	14.718	13.578	12.561	11.652	10.838	10.106	9.447	8.851	8.313	7.824	7.379	6.974	6.604	6.265	5.954	5.668	5.405
17	15.562	14.292	13.166	12.166	11.274	10.477	9.763	9.122	8.544	8.022	7.549	7.120	6.729	6.373	6.047	5.749	5.475
18	16.398	14.992	13.754	12.659	11.690	10.828	10.059	9.372	8.756	8.201	7.702	7.250	6.840	6.467	6.128	5.818	5.534
19	17.226	15.678	14.324	13.134	12.085	11.158	10.336	9.604	8.950	8.365	7.839	7.366	6.938	6.550	6.198	5.877	5.584
20	18.046	16.351	14.877	13.590	12.462	11.470	10.594	9.818	9.129	8.514	7.963	7.469	7.025	6.623	6.259	5.929	5.628
25	22.023	19.523	17.413	15.622	14.094	12.783	11.654	10.675	9.823	9.077	8.422	7.843	7.330	6.873	6.464	6.097	5.766
30	25.808	22.396	19.600	17.292	15.372	13.765	12.409	11.258	10.274	9.427	8.694	8.055	7.496	7.003	6.566	6.177	5.829
35	29.409	24.999	21.487	18.665	16.374	14.498	12.948	11.655	10.567	9.644	8.855	8.176	7.586	7.070	6.617	6.215	5.858
40	32.835	27.355	23.115	19.793	17.159	15.046	13.332	11.925	10.757	9.779	8.951	8.244	7.634	7.105	6.642	6.233	5.871
50	39.196	31.424	25.730	21.482	18.256	15.762	13.801	12.233	10.962	9.915	9.042	8.304	7.675	7.133	6.661	6.246	5.880