

# SLUŽBENI GLASNIK GRADA SISEKA

IZDANJE 11/2011. (11. LISTOPAD 2011.) - 11. BROJ - 11. LISTOPAD 2011.

## OPREMA

### OPREMA ZA 2011.

1. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
2. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
3. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
4. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
5. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
6. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
7. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
8. Oprema za opremanje i održavanje prostora za održavanje javnih radova.

### OPREMA ZA 2012.

1. Oprema za opremanje i održavanje prostora za održavanje javnih radova.
2. Oprema za opremanje i održavanje prostora za održavanje javnih radova.

The Board of Directors of the Company has reviewed the financial statements of the Company for the period ended December 31, 2018, and has approved the financial statements for inclusion in the Company's 2018 Annual Report. The Board also has approved the financial statements for inclusion in the Company's 2018 Annual Report.

**Financial Statements**

The financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

**Notes**

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Section 1

1. The purpose of this document is to provide information regarding the security of the system.

Section 2

2. This document is classified as CONFIDENTIAL - SECURITY INFORMATION.

Section 3

3. The information contained herein is intended for the use of authorized personnel only.

4. This document is classified as CONFIDENTIAL - SECURITY INFORMATION.

5. The information contained herein is intended for the use of authorized personnel only.

Section 4

6. The information contained herein is intended for the use of authorized personnel only.

Section 5

7. This document is classified as CONFIDENTIAL - SECURITY INFORMATION.

Section 6

8. The information contained herein is intended for the use of authorized personnel only.

Section 7

9. This document is classified as CONFIDENTIAL - SECURITY INFORMATION.

10. The information contained herein is intended for the use of authorized personnel only.



# PROBLEMS IN PHYSICS

## PROBLEMS IN PHYSICS

Problem No.	Problem Statement	Given Data	Required	Formulae	Solution
1.	A body of mass $m$ is moving with a velocity $v$ . Find its kinetic energy.	$m, v$	KE	$\frac{1}{2}mv^2$	$\frac{1}{2}mv^2$
2.	A body of mass $m$ is moving with a velocity $v$ . Find its momentum.	$m, v$	Momentum	$mv$	$mv$
3.	A body of mass $m$ is moving with a velocity $v$ . Find its angular momentum.	$m, v, r$	Angular Momentum	$mv r$	$mv r$
4.	A body of mass $m$ is moving with a velocity $v$ . Find its total energy.	$m, v$	Total Energy	$\frac{1}{2}mv^2 + mc^2$	$\frac{1}{2}mv^2 + mc^2$
5.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic mass.	$m, v$	Relativistic Mass	$\frac{m}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{m}{\sqrt{1 - \frac{v^2}{c^2}}}$
6.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic momentum.	$m, v$	Relativistic Momentum	$\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$
7.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic energy.	$m, v$	Relativistic Energy	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$
8.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic angular momentum.	$m, v, r$	Relativistic Angular Momentum	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$
9.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic total energy.	$m, v$	Relativistic Total Energy	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$
10.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic momentum and energy.	$m, v$	Relativistic Momentum and Energy	$\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$
11.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic angular momentum and energy.	$m, v, r$	Relativistic Angular Momentum and Energy	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$
12.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic total energy and momentum.	$m, v$	Relativistic Total Energy and Momentum	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ and $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ and $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$
13.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic angular momentum and total energy.	$m, v, r$	Relativistic Angular Momentum and Total Energy	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ and $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$
14.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic total energy, momentum, and angular momentum.	$m, v$	Relativistic Total Energy, Momentum, and Angular Momentum	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ , $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$ , and $\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ , $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$ , and $\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$
15.	A body of mass $m$ is moving with a velocity $v$ . Find its relativistic angular momentum, total energy, and momentum.	$m, v, r$	Relativistic Angular Momentum, Total Energy, and Momentum	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ , $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ , and $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\frac{mv r}{\sqrt{1 - \frac{v^2}{c^2}}}$ , $\frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} + \frac{1}{2}mv^2$ , and $\frac{mv}{\sqrt{1 - \frac{v^2}{c^2}}}$

Sl. No.	Name of the Candidate	Grade	Roll No.	Mark	Percentage	Remarks
1	ABHIRAM K	10	101	95	95%	
2	ADARSH K	10	102	90	90%	
3	ADITHYAN K	10	103	85	85%	
4	ADITHYAN K	10	104	80	80%	
5	ADITHYAN K	10	105	75	75%	
6	ADITHYAN K	10	106	70	70%	
7	ADITHYAN K	10	107	65	65%	
8	ADITHYAN K	10	108	60	60%	
9	ADITHYAN K	10	109	55	55%	
10	ADITHYAN K	10	110	50	50%	
11	ADITHYAN K	10	111	45	45%	
12	ADITHYAN K	10	112	40	40%	
13	ADITHYAN K	10	113	35	35%	
14	ADITHYAN K	10	114	30	30%	
15	ADITHYAN K	10	115	25	25%	
16	ADITHYAN K	10	116	20	20%	
17	ADITHYAN K	10	117	15	15%	
18	ADITHYAN K	10	118	10	10%	
19	ADITHYAN K	10	119	5	5%	
20	ADITHYAN K	10	120	0	0%	
21	ADITHYAN K	10	121	0	0%	
22	ADITHYAN K	10	122	0	0%	
23	ADITHYAN K	10	123	0	0%	
24	ADITHYAN K	10	124	0	0%	
25	ADITHYAN K	10	125	0	0%	
26	ADITHYAN K	10	126	0	0%	
27	ADITHYAN K	10	127	0	0%	
28	ADITHYAN K	10	128	0	0%	
29	ADITHYAN K	10	129	0	0%	
30	ADITHYAN K	10	130	0	0%	
31	ADITHYAN K	10	131	0	0%	
32	ADITHYAN K	10	132	0	0%	
33	ADITHYAN K	10	133	0	0%	
34	ADITHYAN K	10	134	0	0%	
35	ADITHYAN K	10	135	0	0%	
36	ADITHYAN K	10	136	0	0%	
37	ADITHYAN K	10	137	0	0%	
38	ADITHYAN K	10	138	0	0%	
39	ADITHYAN K	10	139	0	0%	
40	ADITHYAN K	10	140	0	0%	
41	ADITHYAN K	10	141	0	0%	
42	ADITHYAN K	10	142	0	0%	
43	ADITHYAN K	10	143	0	0%	
44	ADITHYAN K	10	144	0	0%	
45	ADITHYAN K	10	145	0	0%	
46	ADITHYAN K	10	146	0	0%	
47	ADITHYAN K	10	147	0	0%	
48	ADITHYAN K	10	148	0	0%	
49	ADITHYAN K	10	149	0	0%	
50	ADITHYAN K	10	150	0	0%	
51	ADITHYAN K	10	151	0	0%	
52	ADITHYAN K	10	152	0	0%	
53	ADITHYAN K	10	153	0	0%	
54	ADITHYAN K	10	154	0	0%	
55	ADITHYAN K	10	155	0	0%	
56	ADITHYAN K	10	156	0	0%	
57	ADITHYAN K	10	157	0	0%	
58	ADITHYAN K	10	158	0	0%	
59	ADITHYAN K	10	159	0	0%	
60	ADITHYAN K	10	160	0	0%	
61	ADITHYAN K	10	161	0	0%	
62	ADITHYAN K	10	162	0	0%	
63	ADITHYAN K	10	163	0	0%	
64	ADITHYAN K	10	164	0	0%	
65	ADITHYAN K	10	165	0	0%	
66	ADITHYAN K	10	166	0	0%	
67	ADITHYAN K	10	167	0	0%	
68	ADITHYAN K	10	168	0	0%	
69	ADITHYAN K	10	169	0	0%	
70	ADITHYAN K	10	170	0	0%	
71	ADITHYAN K	10	171	0	0%	
72	ADITHYAN K	10	172	0	0%	
73	ADITHYAN K	10	173	0	0%	
74	ADITHYAN K	10	174	0	0%	
75	ADITHYAN K	10	175	0	0%	
76	ADITHYAN K	10	176	0	0%	
77	ADITHYAN K	10	177	0	0%	
78	ADITHYAN K	10	178	0	0%	
79	ADITHYAN K	10	179	0	0%	
80	ADITHYAN K	10	180	0	0%	
81	ADITHYAN K	10	181	0	0%	
82	ADITHYAN K	10	182	0	0%	
83	ADITHYAN K	10	183	0	0%	
84	ADITHYAN K	10	184	0	0%	
85	ADITHYAN K	10	185	0	0%	
86	ADITHYAN K	10	186	0	0%	
87	ADITHYAN K	10	187	0	0%	
88	ADITHYAN K	10	188	0	0%	
89	ADITHYAN K	10	189	0	0%	
90	ADITHYAN K	10	190	0	0%	
91	ADITHYAN K	10	191	0	0%	
92	ADITHYAN K	10	192	0	0%	
93	ADITHYAN K	10	193	0	0%	
94	ADITHYAN K	10	194	0	0%	
95	ADITHYAN K	10	195	0	0%	
96	ADITHYAN K	10	196	0	0%	
97	ADITHYAN K	10	197	0	0%	
98	ADITHYAN K	10	198	0	0%	
99	ADITHYAN K	10	199	0	0%	
100	ADITHYAN K	10	200	0	0%	

# Inventory of the USA

Year	Country	Population	Area	Capital	Government	Language	Religion	Major Cities	Major Industries	Major Exports	Major Imports	Major Imports from USA	Major Exports to USA
1999	USA	270,000,000	9,800,000 km <sup>2</sup>	Washington DC	Presidential	English	Protestant	New York, Los Angeles, Chicago, Houston, Phoenix	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2000	Canada	31,000,000	9,900,000 km <sup>2</sup>	Ottawa	Parliamentary	English, French	Protestant, Catholic	Ottawa, Montreal, Toronto, Vancouver	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2001	Mexico	100,000,000	1,900,000 km <sup>2</sup>	Mexico City	Presidential	Spanish	Catholic	Mexico City, Monterrey, Guadalajara, Puebla	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2002	Brazil	170,000,000	8,500,000 km <sup>2</sup>	Brasilia	Presidential	Portuguese	Catholic	Brasilia, Sao Paulo, Rio de Janeiro, Belo Horizonte	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2003	Argentina	40,000,000	2,800,000 km <sup>2</sup>	Buenos Aires	Presidential	Spanish	Catholic	Buenos Aires, Cordoba, Rosario, Mendoza	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2004	Chile	16,000,000	750,000 km <sup>2</sup>	Santiago	Presidential	Spanish	Catholic	Santiago, Valparaiso, Concepcion	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2005	Colombia	40,000,000	1,100,000 km <sup>2</sup>	Bogota	Presidential	Spanish	Catholic	Bogota, Medellin, Cali, Barranquilla	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2006	Venezuela	26,000,000	900,000 km <sup>2</sup>	Caracas	Presidential	Spanish	Catholic	Caracas, Maracaibo, Valencia, Coro	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2007	Ecuador	13,000,000	280,000 km <sup>2</sup>	Quito	Presidential	Spanish	Catholic	Quito, Guayaquil, Cuenca, Loja	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2008	Peru	28,000,000	1,300,000 km <sup>2</sup>	Lima	Presidential	Spanish	Catholic	Lima, Arequipa, Cuzco, Trujillo	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2009	Guatemala	15,000,000	110,000 km <sup>2</sup>	Guatemala City	Presidential	Spanish	Catholic	Guatemala City, Quetzaltenango, Escuintla	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2010	Honduras	7,000,000	110,000 km <sup>2</sup>	Tegucigalpa	Presidential	Spanish	Catholic	Tegucigalpa, San Pedro Sula, Comayagua	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2011	Nicaragua	5,000,000	130,000 km <sup>2</sup>	Managua	Presidential	Spanish	Catholic	Managua, Leonados, Masaya	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2012	Costa Rica	4,000,000	50,000 km <sup>2</sup>	San Jose	Presidential	Spanish	Catholic	San Jose, Limon, Puntarenas	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2013	Panama	3,000,000	75,000 km <sup>2</sup>	Panama City	Presidential	Spanish	Catholic	Panama City, Colon, David	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2014	Cuba	11,000,000	110,000 km <sup>2</sup>	Havana	Presidential	Spanish	Catholic	Havana, Santiago de Cuba, Cienfuegos	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2015	Dominican Republic	10,000,000	75,000 km <sup>2</sup>	Santiago	Presidential	Spanish	Catholic	Santiago, Santo Domingo, San Pedro de Macoris	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2016	Jamaica	2,500,000	10,000 km <sup>2</sup>	Kingston	Parliamentary	English	Catholic	Kingston, Montego Bay, Spanish Town	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2017	Trinidad and Tobago	1,200,000	500 km <sup>2</sup>	Port of Spain	Parliamentary	English	Catholic	Port of Spain, San Fernando, Scarborough	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2018	Barbados	280,000	430 km <sup>2</sup>	Bridgetown	Parliamentary	English	Catholic	Bridgetown, Speightstown, St. James	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2019	Suriname	500,000	160,000 km <sup>2</sup>	Paramaribo	Parliamentary	Dutch	Catholic	Paramaribo, Lelydorp, Nieuw-Amsterdam	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2020	French Guiana	600,000	80,000 km <sup>2</sup>	Kayenne	French	French	Catholic	Kayenne, Matouk, Petit Bourg	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2021	Guadeloupe	400,000	1,600 km <sup>2</sup>	Basse-Terre	French	French	Catholic	Basse-Terre, Pointe-a-Pitre, Les Abymes	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2022	Martinique	370,000	380 km <sup>2</sup>	Fort-de-France	French	French	Catholic	Fort-de-France, Le Lorrain, Le Robert	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore
2023	Reunion	800,000	2,500 km <sup>2</sup>	St. Denis	French	French	Catholic	St. Denis, St. Paul, St. Pierre	Automotive, Chemical, Food, Machinery, Electronics	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore	Crude Oil, Wheat, Soybeans, Cotton, Iron Ore



Sl. No.	Name of the Candidate	Grade	Roll No.	Mark	Percentage	Grade	Remarks
1	ABHIRAM K	10	101	85	85	B	
2	ADARSH K	10	102	75	75	C	
3	ADITHYAN K	10	103	65	65	D	
4	ADITHYAN K	10	104	55	55	E	
5	ADITHYAN K	10	105	45	45	F	
6	ADITHYAN K	10	106	35	35	G	
7	ADITHYAN K	10	107	25	25	H	
8	ADITHYAN K	10	108	15	15	I	
9	ADITHYAN K	10	109	5	5	J	
10	ADITHYAN K	10	110	0	0	K	
11	ADITHYAN K	10	111	0	0	K	
12	ADITHYAN K	10	112	0	0	K	
13	ADITHYAN K	10	113	0	0	K	
14	ADITHYAN K	10	114	0	0	K	
15	ADITHYAN K	10	115	0	0	K	
16	ADITHYAN K	10	116	0	0	K	
17	ADITHYAN K	10	117	0	0	K	
18	ADITHYAN K	10	118	0	0	K	
19	ADITHYAN K	10	119	0	0	K	
20	ADITHYAN K	10	120	0	0	K	
21	ADITHYAN K	10	121	0	0	K	
22	ADITHYAN K	10	122	0	0	K	
23	ADITHYAN K	10	123	0	0	K	
24	ADITHYAN K	10	124	0	0	K	
25	ADITHYAN K	10	125	0	0	K	
26	ADITHYAN K	10	126	0	0	K	
27	ADITHYAN K	10	127	0	0	K	
28	ADITHYAN K	10	128	0	0	K	
29	ADITHYAN K	10	129	0	0	K	
30	ADITHYAN K	10	130	0	0	K	
31	ADITHYAN K	10	131	0	0	K	
32	ADITHYAN K	10	132	0	0	K	
33	ADITHYAN K	10	133	0	0	K	
34	ADITHYAN K	10	134	0	0	K	
35	ADITHYAN K	10	135	0	0	K	
36	ADITHYAN K	10	136	0	0	K	
37	ADITHYAN K	10	137	0	0	K	
38	ADITHYAN K	10	138	0	0	K	
39	ADITHYAN K	10	139	0	0	K	
40	ADITHYAN K	10	140	0	0	K	
41	ADITHYAN K	10	141	0	0	K	
42	ADITHYAN K	10	142	0	0	K	
43	ADITHYAN K	10	143	0	0	K	
44	ADITHYAN K	10	144	0	0	K	
45	ADITHYAN K	10	145	0	0	K	
46	ADITHYAN K	10	146	0	0	K	
47	ADITHYAN K	10	147	0	0	K	
48	ADITHYAN K	10	148	0	0	K	
49	ADITHYAN K	10	149	0	0	K	
50	ADITHYAN K	10	150	0	0	K	

Sl. No.	Name of the Candidate	Grade	Roll No.	Grade	Roll No.	Grade	Roll No.
1	ABHIRAM K	10	1001	10	1002	10	1003
2	ADARSH K	10	1004	10	1005	10	1006
3	ADITHYAN K	10	1007	10	1008	10	1009
4	ADITHYAN K	10	1010	10	1011	10	1012
5	ADITHYAN K	10	1013	10	1014	10	1015
6	ADITHYAN K	10	1016	10	1017	10	1018
7	ADITHYAN K	10	1019	10	1020	10	1021
8	ADITHYAN K	10	1022	10	1023	10	1024
9	ADITHYAN K	10	1025	10	1026	10	1027
10	ADITHYAN K	10	1028	10	1029	10	1030
11	ADITHYAN K	10	1031	10	1032	10	1033
12	ADITHYAN K	10	1034	10	1035	10	1036
13	ADITHYAN K	10	1037	10	1038	10	1039
14	ADITHYAN K	10	1040	10	1041	10	1042
15	ADITHYAN K	10	1043	10	1044	10	1045
16	ADITHYAN K	10	1046	10	1047	10	1048
17	ADITHYAN K	10	1049	10	1050	10	1051
18	ADITHYAN K	10	1052	10	1053	10	1054
19	ADITHYAN K	10	1055	10	1056	10	1057
20	ADITHYAN K	10	1058	10	1059	10	1060
21	ADITHYAN K	10	1061	10	1062	10	1063
22	ADITHYAN K	10	1064	10	1065	10	1066
23	ADITHYAN K	10	1067	10	1068	10	1069
24	ADITHYAN K	10	1070	10	1071	10	1072
25	ADITHYAN K	10	1073	10	1074	10	1075
26	ADITHYAN K	10	1076	10	1077	10	1078
27	ADITHYAN K	10	1079	10	1080	10	1081
28	ADITHYAN K	10	1082	10	1083	10	1084
29	ADITHYAN K	10	1085	10	1086	10	1087
30	ADITHYAN K	10	1088	10	1089	10	1090
31	ADITHYAN K	10	1091	10	1092	10	1093
32	ADITHYAN K	10	1094	10	1095	10	1096
33	ADITHYAN K	10	1097	10	1098	10	1099
34	ADITHYAN K	10	1100	10	1101	10	1102
35	ADITHYAN K	10	1103	10	1104	10	1105
36	ADITHYAN K	10	1106	10	1107	10	1108
37	ADITHYAN K	10	1109	10	1110	10	1111
38	ADITHYAN K	10	1112	10	1113	10	1114
39	ADITHYAN K	10	1115	10	1116	10	1117
40	ADITHYAN K	10	1118	10	1119	10	1120
41	ADITHYAN K	10	1121	10	1122	10	1123
42	ADITHYAN K	10	1124	10	1125	10	1126
43	ADITHYAN K	10	1127	10	1128	10	1129
44	ADITHYAN K	10	1130	10	1131	10	1132
45	ADITHYAN K	10	1133	10	1134	10	1135
46	ADITHYAN K	10	1136	10	1137	10	1138
47	ADITHYAN K	10	1139	10	1140	10	1141
48	ADITHYAN K	10	1142	10	1143	10	1144
49	ADITHYAN K	10	1145	10	1146	10	1147
50	ADITHYAN K	10	1148	10	1149	10	1150
51	ADITHYAN K	10	1151	10	1152	10	1153
52	ADITHYAN K	10	1154	10	1155	10	1156
53	ADITHYAN K	10	1157	10	1158	10	1159
54	ADITHYAN K	10	1160	10	1161	10	1162
55	ADITHYAN K	10	1163	10	1164	10	1165
56	ADITHYAN K	10	1166	10	1167	10	1168
57	ADITHYAN K	10	1169	10	1170	10	1171
58	ADITHYAN K	10	1172	10	1173	10	1174
59	ADITHYAN K	10	1175	10	1176	10	1177
60	ADITHYAN K	10	1178	10	1179	10	1180
61	ADITHYAN K	10	1181	10	1182	10	1183
62	ADITHYAN K	10	1184	10	1185	10	1186
63	ADITHYAN K	10	1187	10	1188	10	1189
64	ADITHYAN K	10	1190	10	1191	10	1192
65	ADITHYAN K	10	1193	10	1194	10	1195
66	ADITHYAN K	10	1196	10	1197	10	1198
67	ADITHYAN K	10	1199	10	1200	10	1201
68	ADITHYAN K	10	1202	10	1203	10	1204
69	ADITHYAN K	10	1205	10	1206	10	1207
70	ADITHYAN K	10	1208	10	1209	10	1210
71	ADITHYAN K	10	1211	10	1212	10	1213
72	ADITHYAN K	10	1214	10	1215	10	1216
73	ADITHYAN K	10	1217	10	1218	10	1219
74	ADITHYAN K	10	1220	10	1221	10	1222
75	ADITHYAN K	10	1223	10	1224	10	1225
76	ADITHYAN K	10	1226	10	1227	10	1228
77	ADITHYAN K	10	1229	10	1230	10	1231
78	ADITHYAN K	10	1232	10	1233	10	1234
79	ADITHYAN K	10	1235	10	1236	10	1237
80	ADITHYAN K	10	1238	10	1239	10	1240
81	ADITHYAN K	10	1241	10	1242	10	1243
82	ADITHYAN K	10	1244	10	1245	10	1246
83	ADITHYAN K	10	1247	10	1248	10	1249
84	ADITHYAN K	10	1250	10	1251	10	1252
85	ADITHYAN K	10	1253	10	1254	10	1255
86	ADITHYAN K	10	1256	10	1257	10	1258
87	ADITHYAN K	10	1259	10	1260	10	1261
88	ADITHYAN K	10	1262	10	1263	10	1264
89	ADITHYAN K	10	1265	10	1266	10	1267
90	ADITHYAN K	10	1268	10	1269	10	1270
91	ADITHYAN K	10	1271	10	1272	10	1273
92	ADITHYAN K	10	1274	10	1275	10	1276
93	ADITHYAN K	10	1277	10	1278	10	1279
94	ADITHYAN K	10	1280	10	1281	10	1282
95	ADITHYAN K	10	1283	10	1284	10	1285
96	ADITHYAN K	10	1286	10	1287	10	1288
97	ADITHYAN K	10	1289	10	1290	10	1291
98	ADITHYAN K	10	1292	10	1293	10	1294
99	ADITHYAN K	10	1295	10	1296	10	1297
100	ADITHYAN K	10	1298	10	1299	10	1300

ADITHYAN K

**Section 11.10.10.1 - 11.10.10.2 - 11.10.10.3**

Item #	Description	Quantity	Unit	Price	Total
1	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
2	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
3	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
4	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
5	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
6	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
7	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
8	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
9	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000
10	11.10.10.1 - 11.10.10.2 - 11.10.10.3	1	Lot	100000	100000

**QUESTION (10)**

Table 10.1 shows the results of a survey of 1000 people about their favourite sport.

Sport	Number of people	Percentage
Football	450	45%
Cricket	300	30%
Rugby	150	15%
Netball	100	10%
Other	100	10%
<b>Total</b>	<b>1000</b>	<b>100%</b>

**QUESTION (11)**

Table 10.2 shows the results of a survey of 1000 people about their favourite sport.

Sport	Number of people	Percentage
Football	400	40%
Cricket	250	25%
Rugby	150	15%
Netball	100	10%
Other	100	10%
<b>Total</b>	<b>1000</b>	<b>100%</b>

**QUESTION (12)**

Table 10.3 shows the results of a survey of 1000 people about their favourite sport.

Sport	Number of people	Percentage
Football	350	35%
Cricket	200	20%
Rugby	150	15%
Netball	100	10%
Other	200	20%
<b>Total</b>	<b>1000</b>	<b>100%</b>

**Table 1. Summary of the 10 most common types of fraud.**

Fraud Type	How it Works	Common Scenarios	Prevention	Impact
1. Identity Theft	Stealing personal information to impersonate someone else.	Phishing emails, lost wallets, data breaches.	Secure passwords, two-factor authentication, shredding sensitive documents.	Financial loss, credit damage, identity restoration costs.
2. Credit Card Fraud	Unauthorized use of credit cards.	Lost or stolen cards, counterfeit cards, card-not-present transactions.	Monitoring statements, reporting lost cards immediately, using virtual cards.	Financial loss, increased credit card fees.
3. Social Engineering	Manipulating people into revealing sensitive information.	Phishing, vishing, smishing, pretexting.	Employee training, skepticism of unsolicited requests, verifying identities.	Data breaches, financial loss, reputational damage.
4. Business Email Compromise (BEC)	Impersonating a business executive to request wire transfers.	CEO impersonation, vendor impersonation.	Employee training, verifying requests through multiple channels.	Financial loss, operational disruption.
5. Insurance Fraud	Submitting false or exaggerated claims.	Staged accidents, inflated bills, phantom injuries.	Thorough investigation, random audits, working with adjusters.	Financial loss for insurers, increased premiums.
6. Mortgage Fraud	Obtaining a mortgage through false information.	Straw man borrowers, inflated appraisals, falsified documents.	Thorough underwriting, independent appraisals, document verification.	Financial loss for lenders, legal costs.
7. Tax Fraud	Illegally evading tax payments.	Underreporting income, claiming false deductions, identity theft.	Accurate record-keeping, professional tax advice, audits.	Financial loss, penalties, interest, legal consequences.
8. Investment Fraud	Deceiving investors with false promises of high returns.	Ponzi schemes, pump and dump, initial coin offerings (ICOs).	Due diligence, skepticism of high returns, consulting financial advisors.	Financial loss, reputational damage.
9. Charity Fraud	Misusing donations for personal gain.	Overstating needs, misappropriating funds, false reporting.	Transparency, audits, donor education.	Financial loss, reputational damage, loss of trust.
10. Real Estate Fraud	Deceiving buyers or sellers in property transactions.	False listings, undisclosed liens, identity theft.	Thorough title search, escrow services, professional representation.	Financial loss, legal costs, reputational damage.

Year	Country	Value	Unit	Source
2000	Algeria	1.0	kg	FAO
2001	Algeria	1.0	kg	FAO
2002	Algeria	1.0	kg	FAO
2003	Algeria	1.0	kg	FAO
2004	Algeria	1.0	kg	FAO
2005	Algeria	1.0	kg	FAO
2006	Algeria	1.0	kg	FAO
2007	Algeria	1.0	kg	FAO
2008	Algeria	1.0	kg	FAO
2009	Algeria	1.0	kg	FAO
2010	Algeria	1.0	kg	FAO
2011	Algeria	1.0	kg	FAO
2012	Algeria	1.0	kg	FAO
2013	Algeria	1.0	kg	FAO
2014	Algeria	1.0	kg	FAO
2015	Algeria	1.0	kg	FAO
2016	Algeria	1.0	kg	FAO
2017	Algeria	1.0	kg	FAO
2018	Algeria	1.0	kg	FAO
2019	Algeria	1.0	kg	FAO
2020	Algeria	1.0	kg	FAO
2021	Algeria	1.0	kg	FAO
2022	Algeria	1.0	kg	FAO
2023	Algeria	1.0	kg	FAO
2024	Algeria	1.0	kg	FAO
2025	Algeria	1.0	kg	FAO
2026	Algeria	1.0	kg	FAO
2027	Algeria	1.0	kg	FAO
2028	Algeria	1.0	kg	FAO
2029	Algeria	1.0	kg	FAO
2030	Algeria	1.0	kg	FAO
2031	Algeria	1.0	kg	FAO
2032	Algeria	1.0	kg	FAO
2033	Algeria	1.0	kg	FAO
2034	Algeria	1.0	kg	FAO
2035	Algeria	1.0	kg	FAO
2036	Algeria	1.0	kg	FAO
2037	Algeria	1.0	kg	FAO
2038	Algeria	1.0	kg	FAO
2039	Algeria	1.0	kg	FAO
2040	Algeria	1.0	kg	FAO
2041	Algeria	1.0	kg	FAO
2042	Algeria	1.0	kg	FAO
2043	Algeria	1.0	kg	FAO
2044	Algeria	1.0	kg	FAO
2045	Algeria	1.0	kg	FAO
2046	Algeria	1.0	kg	FAO
2047	Algeria	1.0	kg	FAO
2048	Algeria	1.0	kg	FAO
2049	Algeria	1.0	kg	FAO
2050	Algeria	1.0	kg	FAO



Log No.	Index	Location	Comments	Depth (m)	Notes
1	1	1000	1000	1000	1000
2	2	1000	1000	1000	1000
3	3	1000	1000	1000	1000
4	4	1000	1000	1000	1000
5	5	1000	1000	1000	1000
6	6	1000	1000	1000	1000
7	7	1000	1000	1000	1000
8	8	1000	1000	1000	1000
9	9	1000	1000	1000	1000
10	10	1000	1000	1000	1000
11	11	1000	1000	1000	1000
12	12	1000	1000	1000	1000
13	13	1000	1000	1000	1000
14	14	1000	1000	1000	1000
15	15	1000	1000	1000	1000
16	16	1000	1000	1000	1000
17	17	1000	1000	1000	1000
18	18	1000	1000	1000	1000
19	19	1000	1000	1000	1000
20	20	1000	1000	1000	1000
21	21	1000	1000	1000	1000
22	22	1000	1000	1000	1000
23	23	1000	1000	1000	1000
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25	25	1000	1000	1000	1000
26	26	1000	1000	1000	1000
27	27	1000	1000	1000	1000
28	28	1000	1000	1000	1000
29	29	1000	1000	1000	1000
30	30	1000	1000	1000	1000
31	31	1000	1000	1000	1000
32	32	1000	1000	1000	1000
33	33	1000	1000	1000	1000
34	34	1000	1000	1000	1000
35	35	1000	1000	1000	1000
36	36	1000	1000	1000	1000
37	37	1000	1000	1000	1000
38	38	1000	1000	1000	1000
39	39	1000	1000	1000	1000
40	40	1000	1000	1000	1000
41	41	1000	1000	1000	1000
42	42	1000	1000	1000	1000
43	43	1000	1000	1000	1000
44	44	1000	1000	1000	1000
45	45	1000	1000	1000	1000
46	46	1000	1000	1000	1000
47	47	1000	1000	1000	1000
48	48	1000	1000	1000	1000
49	49	1000	1000	1000	1000
50	50	1000	1000	1000	1000
51	51	1000	1000	1000	1000
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62	62	1000	1000	1000	1000
63	63	1000	1000	1000	1000
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66	66	1000	1000	1000	1000
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69	69	1000	1000	1000	1000
70	70	1000	1000	1000	1000
71	71	1000	1000	1000	1000
72	72	1000	1000	1000	1000
73	73	1000	1000	1000	1000
74	74	1000	1000	1000	1000
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76	76	1000	1000	1000	1000
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79	79	1000	1000	1000	1000
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81	81	1000	1000	1000	1000
82	82	1000	1000	1000	1000
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92	92	1000	1000	1000	1000
93	93	1000	1000	1000	1000
94	94	1000	1000	1000	1000
95	95	1000	1000	1000	1000
96	96	1000	1000	1000	1000
97	97	1000	1000	1000	1000
98	98	1000	1000	1000	1000
99	99	1000	1000	1000	1000
100	100	1000	1000	1000	1000



Year	Month	Day	Event	Location	Time	Notes
1900	Jan	1	...	...	...	...
1900	Jan	2	...	...	...	...
1900	Jan	3	...	...	...	...
1900	Jan	4	...	...	...	...
1900	Jan	5	...	...	...	...
1900	Jan	6	...	...	...	...
1900	Jan	7	...	...	...	...
1900	Jan	8	...	...	...	...
1900	Jan	9	...	...	...	...
1900	Jan	10	...	...	...	...
1900	Jan	11	...	...	...	...
1900	Jan	12	...	...	...	...
1900	Jan	13	...	...	...	...
1900	Jan	14	...	...	...	...
1900	Jan	15	...	...	...	...
1900	Jan	16	...	...	...	...
1900	Jan	17	...	...	...	...
1900	Jan	18	...	...	...	...
1900	Jan	19	...	...	...	...
1900	Jan	20	...	...	...	...
1900	Jan	21	...	...	...	...
1900	Jan	22	...	...	...	...
1900	Jan	23	...	...	...	...
1900	Jan	24	...	...	...	...
1900	Jan	25	...	...	...	...
1900	Jan	26	...	...	...	...
1900	Jan	27	...	...	...	...
1900	Jan	28	...	...	...	...
1900	Jan	29	...	...	...	...
1900	Jan	30	...	...	...	...
1900	Jan	31	...	...	...	...

Entity Name	Address	Business Type	City	State	Zip
ABC COMPANY	123 Main St	Retail	New York	NY	10001
DEF CORPORATION	456 Elm St	Manufacturing	Los Angeles	CA	90001
GHI LLC	789 Oak St	Service	Chicago	IL	60601
JKL PARTNERSHIP	101 Pine St	Finance	San Francisco	CA	94101
MNO TRADING CO	202 Cedar St	Wholesale	Houston	TX	77001
PQR HOLDINGS	303 Birch St	Investment	Phoenix	AZ	85001
STU CONSULTANTS	404 Spruce St	Consulting	Philadelphia	PA	19101
VWX LOGISTICS	505 Willow St	Logistics	San Diego	CA	92101
YZA ENERGY	606 Ash St	Energy	Dallas	TX	75201
BCD REALTY	707 Hickory St	Real Estate	Portland	OR	97201
EFG MEDIA	808 Sycamore St	Media	Seattle	WA	98101
HIJ FOODS	909 Walnut St	Food Processing	Denver	CO	80201
KLM TEXTILES	1010 Chestnut St	Textiles	San Antonio	TX	78201
NOP CHEMICALS	1111 Olive St	Chemicals	San Jose	CA	95101
QRS AEROSPACE	1212 Elm St	Aerospace	Fort Worth	TX	76101
TUV AUTOMOTIVE	1313 Maple St	Automotive	San Jose	CA	95101
WXY ELECTRONICS	1414 Birch St	Electronics	San Jose	CA	95101
ZAB TELECOM	1515 Spruce St	Telecommunications	San Jose	CA	95101
ACD BIOTECH	1616 Willow St	Biotechnology	San Jose	CA	95101
DEF AEROSPACE	1717 Ash St	Aerospace	San Jose	CA	95101
GHI AUTOMOTIVE	1818 Hickory St	Automotive	San Jose	CA	95101
JKL ELECTRONICS	1919 Sycamore St	Electronics	San Jose	CA	95101
MNO TELECOM	2020 Walnut St	Telecommunications	San Jose	CA	95101
PQR BIOTECH	2121 Chestnut St	Biotechnology	San Jose	CA	95101
STU AEROSPACE	2222 Olive St	Aerospace	San Jose	CA	95101
VWX AUTOMOTIVE	2323 Elm St	Automotive	San Jose	CA	95101
YZA ELECTRONICS	2424 Maple St	Electronics	San Jose	CA	95101
ABC TELECOM	2525 Birch St	Telecommunications	San Jose	CA	95101
DEF BIOTECH	2626 Spruce St	Biotechnology	San Jose	CA	95101
GHI AEROSPACE	2727 Willow St	Aerospace	San Jose	CA	95101
JKL AUTOMOTIVE	2828 Ash St	Automotive	San Jose	CA	95101
MNO ELECTRONICS	2929 Hickory St	Electronics	San Jose	CA	95101
PQR TELECOM	3030 Sycamore St	Telecommunications	San Jose	CA	95101
STU BIOTECH	3131 Walnut St	Biotechnology	San Jose	CA	95101
VWX AEROSPACE	3232 Chestnut St	Aerospace	San Jose	CA	95101
YZA AUTOMOTIVE	3333 Olive St	Automotive	San Jose	CA	95101
ABC ELECTRONICS	3434 Elm St	Electronics	San Jose	CA	95101
DEF TELECOM	3535 Maple St	Telecommunications	San Jose	CA	95101
GHI BIOTECH	3636 Birch St	Biotechnology	San Jose	CA	95101
JKL AEROSPACE	3737 Spruce St	Aerospace	San Jose	CA	95101
MNO AUTOMOTIVE	3838 Willow St	Automotive	San Jose	CA	95101
PQR ELECTRONICS	3939 Ash St	Electronics	San Jose	CA	95101
STU TELECOM	4040 Hickory St	Telecommunications	San Jose	CA	95101
VWX BIOTECH	4141 Sycamore St	Biotechnology	San Jose	CA	95101
YZA AEROSPACE	4242 Walnut St	Aerospace	San Jose	CA	95101
ABC AUTOMOTIVE	4343 Chestnut St	Automotive	San Jose	CA	95101
DEF ELECTRONICS	4444 Olive St	Electronics	San Jose	CA	95101
GHI TELECOM	4545 Elm St	Telecommunications	San Jose	CA	95101
JKL BIOTECH	4646 Maple St	Biotechnology	San Jose	CA	95101
MNO AEROSPACE	4747 Birch St	Aerospace	San Jose	CA	95101
PQR AUTOMOTIVE	4848 Spruce St	Automotive	San Jose	CA	95101
STU ELECTRONICS	4949 Willow St	Electronics	San Jose	CA	95101
VWX TELECOM	5050 Ash St	Telecommunications	San Jose	CA	95101
YZA BIOTECH	5151 Hickory St	Biotechnology	San Jose	CA	95101
ABC AEROSPACE	5252 Sycamore St	Aerospace	San Jose	CA	95101
DEF AUTOMOTIVE	5353 Walnut St	Automotive	San Jose	CA	95101
GHI ELECTRONICS	5454 Chestnut St	Electronics	San Jose	CA	95101
JKL TELECOM	5555 Olive St	Telecommunications	San Jose	CA	95101
MNO BIOTECH	5656 Elm St	Biotechnology	San Jose	CA	95101
PQR AEROSPACE	5757 Maple St	Aerospace	San Jose	CA	95101
STU AUTOMOTIVE	5858 Birch St	Automotive	San Jose	CA	95101
VWX ELECTRONICS	5959 Spruce St	Electronics	San Jose	CA	95101
YZA TELECOM	6060 Willow St	Telecommunications	San Jose	CA	95101
ABC BIOTECH	6161 Ash St	Biotechnology	San Jose	CA	95101
DEF AEROSPACE	6262 Hickory St	Aerospace	San Jose	CA	95101
GHI AUTOMOTIVE	6363 Sycamore St	Automotive	San Jose	CA	95101
JKL ELECTRONICS	6464 Walnut St	Electronics	San Jose	CA	95101
MNO TELECOM	6565 Chestnut St	Telecommunications	San Jose	CA	95101
PQR BIOTECH	6666 Olive St	Biotechnology	San Jose	CA	95101
STU AEROSPACE	6767 Elm St	Aerospace	San Jose	CA	95101
VWX AUTOMOTIVE	6868 Maple St	Automotive	San Jose	CA	95101
YZA ELECTRONICS	6969 Birch St	Electronics	San Jose	CA	95101
ABC TELECOM	7070 Spruce St	Telecommunications	San Jose	CA	95101
DEF BIOTECH	7171 Willow St	Biotechnology	San Jose	CA	95101
GHI AEROSPACE	7272 Ash St	Aerospace	San Jose	CA	95101
JKL AUTOMOTIVE	7373 Hickory St	Automotive	San Jose	CA	95101
MNO ELECTRONICS	7474 Sycamore St	Electronics	San Jose	CA	95101
PQR TELECOM	7575 Walnut St	Telecommunications	San Jose	CA	95101
STU BIOTECH	7676 Chestnut St	Biotechnology	San Jose	CA	95101
VWX AEROSPACE	7777 Olive St	Aerospace	San Jose	CA	95101
YZA AUTOMOTIVE	7878 Elm St	Automotive	San Jose	CA	95101
ABC ELECTRONICS	7979 Maple St	Electronics	San Jose	CA	95101
DEF TELECOM	8080 Birch St	Telecommunications	San Jose	CA	95101
GHI BIOTECH	8181 Spruce St	Biotechnology	San Jose	CA	95101
JKL AEROSPACE	8282 Willow St	Aerospace	San Jose	CA	95101
MNO AUTOMOTIVE	8383 Ash St	Automotive	San Jose	CA	95101
PQR ELECTRONICS	8484 Hickory St	Electronics	San Jose	CA	95101
STU TELECOM	8585 Sycamore St	Telecommunications	San Jose	CA	95101
VWX BIOTECH	8686 Walnut St	Biotechnology	San Jose	CA	95101
YZA AEROSPACE	8787 Chestnut St	Aerospace	San Jose	CA	95101
ABC AUTOMOTIVE	8888 Olive St	Automotive	San Jose	CA	95101
DEF ELECTRONICS	8989 Elm St	Electronics	San Jose	CA	95101
GHI TELECOM	9090 Maple St	Telecommunications	San Jose	CA	95101
JKL BIOTECH	9191 Birch St	Biotechnology	San Jose	CA	95101
MNO AEROSPACE	9292 Spruce St	Aerospace	San Jose	CA	95101
PQR AUTOMOTIVE	9393 Willow St	Automotive	San Jose	CA	95101
STU ELECTRONICS	9494 Ash St	Electronics	San Jose	CA	95101
VWX TELECOM	9595 Hickory St	Telecommunications	San Jose	CA	95101
YZA BIOTECH	9696 Sycamore St	Biotechnology	San Jose	CA	95101
ABC AEROSPACE	9797 Walnut St	Aerospace	San Jose	CA	95101
DEF AUTOMOTIVE	9898 Chestnut St	Automotive	San Jose	CA	95101
GHI ELECTRONICS	9999 Olive St	Electronics	San Jose	CA	95101



Year	Project	Amount	Method	Notes	Year
1950	...	...	...	...	...
1951	...	...	...	...	...
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**QUESTION** (100) **ANSWER** (100) **MARKS** (100) **STATUS** (100) **DATE** (100)

QUESTION	ANSWER	MARKS	STATUS	DATE
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2	2	100	100	100
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Year	Population	Area	Population Density	Urban Population	Rural Population	Urban Density	Rural Density
1950	100,000,000	3,700,000 km <sup>2</sup>	27.0/km <sup>2</sup>	10,000,000	90,000,000	270/km <sup>2</sup>	7.3/km <sup>2</sup>
1955	110,000,000	3,700,000 km <sup>2</sup>	29.7/km <sup>2</sup>	11,000,000	99,000,000	297/km <sup>2</sup>	8.0/km <sup>2</sup>
1960	120,000,000	3,700,000 km <sup>2</sup>	32.4/km <sup>2</sup>	12,000,000	108,000,000	324/km <sup>2</sup>	8.7/km <sup>2</sup>
1965	130,000,000	3,700,000 km <sup>2</sup>	35.1/km <sup>2</sup>	13,000,000	117,000,000	351/km <sup>2</sup>	9.4/km <sup>2</sup>
1970	140,000,000	3,700,000 km <sup>2</sup>	37.8/km <sup>2</sup>	14,000,000	126,000,000	378/km <sup>2</sup>	10.1/km <sup>2</sup>
1975	150,000,000	3,700,000 km <sup>2</sup>	40.5/km <sup>2</sup>	15,000,000	135,000,000	405/km <sup>2</sup>	10.8/km <sup>2</sup>
1980	160,000,000	3,700,000 km <sup>2</sup>	43.2/km <sup>2</sup>	16,000,000	144,000,000	432/km <sup>2</sup>	11.5/km <sup>2</sup>
1985	170,000,000	3,700,000 km <sup>2</sup>	45.9/km <sup>2</sup>	17,000,000	153,000,000	459/km <sup>2</sup>	12.2/km <sup>2</sup>
1990	180,000,000	3,700,000 km <sup>2</sup>	48.6/km <sup>2</sup>	18,000,000	162,000,000	486/km <sup>2</sup>	12.9/km <sup>2</sup>
1995	190,000,000	3,700,000 km <sup>2</sup>	51.3/km <sup>2</sup>	19,000,000	171,000,000	513/km <sup>2</sup>	13.6/km <sup>2</sup>
2000	200,000,000	3,700,000 km <sup>2</sup>	54.0/km <sup>2</sup>	20,000,000	180,000,000	540/km <sup>2</sup>	14.3/km <sup>2</sup>
2005	210,000,000	3,700,000 km <sup>2</sup>	56.7/km <sup>2</sup>	21,000,000	189,000,000	567/km <sup>2</sup>	15.0/km <sup>2</sup>
2010	220,000,000	3,700,000 km <sup>2</sup>	59.4/km <sup>2</sup>	22,000,000	198,000,000	594/km <sup>2</sup>	15.7/km <sup>2</sup>
2015	230,000,000	3,700,000 km <sup>2</sup>	62.1/km <sup>2</sup>	23,000,000	207,000,000	621/km <sup>2</sup>	16.4/km <sup>2</sup>
2020	240,000,000	3,700,000 km <sup>2</sup>	64.8/km <sup>2</sup>	24,000,000	216,000,000	648/km <sup>2</sup>	17.1/km <sup>2</sup>

Case	Case Name	Case Description	Case Status	Case Date
1	Case 1	Case 1 Description	Case 1 Status	Case 1 Date
2	Case 2	Case 2 Description	Case 2 Status	Case 2 Date
3	Case 3	Case 3 Description	Case 3 Status	Case 3 Date
4	Case 4	Case 4 Description	Case 4 Status	Case 4 Date
5	Case 5	Case 5 Description	Case 5 Status	Case 5 Date
6	Case 6	Case 6 Description	Case 6 Status	Case 6 Date
7	Case 7	Case 7 Description	Case 7 Status	Case 7 Date
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9	Case 9	Case 9 Description	Case 9 Status	Case 9 Date
10	Case 10	Case 10 Description	Case 10 Status	Case 10 Date
11	Case 11	Case 11 Description	Case 11 Status	Case 11 Date
12	Case 12	Case 12 Description	Case 12 Status	Case 12 Date
13	Case 13	Case 13 Description	Case 13 Status	Case 13 Date
14	Case 14	Case 14 Description	Case 14 Status	Case 14 Date
15	Case 15	Case 15 Description	Case 15 Status	Case 15 Date
16	Case 16	Case 16 Description	Case 16 Status	Case 16 Date
17	Case 17	Case 17 Description	Case 17 Status	Case 17 Date
18	Case 18	Case 18 Description	Case 18 Status	Case 18 Date
19	Case 19	Case 19 Description	Case 19 Status	Case 19 Date
20	Case 20	Case 20 Description	Case 20 Status	Case 20 Date

Year	Population	Population Density	Population Growth Rate	Population Growth Rate	Population Growth Rate	Population Growth Rate
1950	100,000	100	1.5%	1.5%	1.5%	1.5%
1955	110,000	110	1.5%	1.5%	1.5%	1.5%
1960	120,000	120	1.5%	1.5%	1.5%	1.5%
1965	130,000	130	1.5%	1.5%	1.5%	1.5%
1970	140,000	140	1.5%	1.5%	1.5%	1.5%
1975	150,000	150	1.5%	1.5%	1.5%	1.5%
1980	160,000	160	1.5%	1.5%	1.5%	1.5%
1985	170,000	170	1.5%	1.5%	1.5%	1.5%
1990	180,000	180	1.5%	1.5%	1.5%	1.5%
1995	190,000	190	1.5%	1.5%	1.5%	1.5%
2000	200,000	200	1.5%	1.5%	1.5%	1.5%
2005	210,000	210	1.5%	1.5%	1.5%	1.5%
2010	220,000	220	1.5%	1.5%	1.5%	1.5%
2015	230,000	230	1.5%	1.5%	1.5%	1.5%
2020	240,000	240	1.5%	1.5%	1.5%	1.5%



Code	Titolo	Autore	Descrizione	Stato
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Year	Country	Population (millions)	Urban Population (millions)	Urban % of Total
1950	USA	150	80	53%
1950	UK	55	35	64%
1950	France	45	25	56%
1950	Germany	50	30	60%
1950	Italy	45	15	33%
1950	Japan	90	30	33%
1950	USSR	160	50	31%
1950	China	550	100	18%
1950	India	350	50	14%
1950	Latin America	250	50	20%
1950	Sub-Saharan Africa	250	20	8%
1950	World	2500	500	20%
1960	USA	160	90	56%
1960	UK	55	38	69%
1960	France	48	28	58%
1960	Germany	55	35	64%
1960	Italy	50	20	40%
1960	Japan	100	40	40%
1960	USSR	170	60	35%
1960	China	600	120	20%
1960	India	400	60	15%
1960	Latin America	300	60	20%
1960	Sub-Saharan Africa	300	25	8%
1960	World	3000	600	20%
1970	USA	170	100	59%
1970	UK	55	40	73%
1970	France	50	30	60%
1970	Germany	60	40	67%
1970	Italy	55	25	45%
1970	Japan	110	50	45%
1970	USSR	180	70	39%
1970	China	650	130	20%
1970	India	450	70	16%
1970	Latin America	350	70	20%
1970	Sub-Saharan Africa	350	30	9%
1970	World	3500	700	20%
1980	USA	180	110	61%
1980	UK	55	42	76%
1980	France	50	32	64%
1980	Germany	65	45	69%
1980	Italy	60	30	50%
1980	Japan	120	60	50%
1980	USSR	190	80	42%
1980	China	700	140	20%
1980	India	500	80	16%
1980	Latin America	400	80	20%
1980	Sub-Saharan Africa	400	35	9%
1980	World	4000	800	20%
1990	USA	190	120	63%
1990	UK	55	45	82%
1990	France	50	35	70%
1990	Germany	70	50	71%
1990	Italy	65	35	54%
1990	Japan	125	70	56%
1990	USSR	200	90	45%
1990	China	750	150	20%
1990	India	550	90	16%
1990	Latin America	450	90	20%
1990	Sub-Saharan Africa	450	40	9%
1990	World	4500	900	20%
2000	USA	200	130	65%
2000	UK	55	48	87%
2000	France	50	38	76%
2000	Germany	80	60	75%
2000	Italy	70	40	57%
2000	Japan	125	80	64%
2000	USSR	200	100	50%
2000	China	800	160	20%
2000	India	600	100	17%
2000	Latin America	500	100	20%
2000	Sub-Saharan Africa	500	45	9%
2000	World	5000	1000	20%
2010	USA	210	140	67%
2010	UK	55	50	91%
2010	France	50	40	80%
2010	Germany	80	65	81%
2010	Italy	70	45	64%
2010	Japan	125	90	72%
2010	USSR	200	110	55%
2010	China	850	170	20%
2010	India	650	110	17%
2010	Latin America	550	110	20%
2010	Sub-Saharan Africa	600	50	8%
2010	World	6000	1200	20%
2020	USA	220	150	68%
2020	UK	55	52	95%
2020	France	50	42	84%
2020	Germany	80	70	88%
2020	Italy	70	50	71%
2020	Japan	125	100	80%
2020	USSR	200	120	60%
2020	China	900	180	20%
2020	India	700	120	17%
2020	Latin America	600	120	20%
2020	Sub-Saharan Africa	700	60	9%
2020	World	7000	1400	20%

Year	Revenue	Expenses	Surplus/Deficit	Notes
1990	1000	1000	0	
1991	1100	1100	0	
1992	1200	1200	0	
1993	1300	1300	0	
1994	1400	1400	0	
1995	1500	1500	0	
1996	1600	1600	0	
1997	1700	1700	0	
1998	1800	1800	0	
1999	1900	1900	0	
2000	2000	2000	0	
2001	2100	2100	0	
2002	2200	2200	0	
2003	2300	2300	0	
2004	2400	2400	0	
2005	2500	2500	0	
2006	2600	2600	0	
2007	2700	2700	0	
2008	2800	2800	0	
2009	2900	2900	0	
2010	3000	3000	0	
2011	3100	3100	0	
2012	3200	3200	0	
2013	3300	3300	0	
2014	3400	3400	0	
2015	3500	3500	0	
2016	3600	3600	0	
2017	3700	3700	0	
2018	3800	3800	0	
2019	3900	3900	0	
2020	4000	4000	0	
2021	4100	4100	0	
2022	4200	4200	0	
2023	4300	4300	0	
2024	4400	4400	0	
2025	4500	4500	0	
2026	4600	4600	0	
2027	4700	4700	0	
2028	4800	4800	0	
2029	4900	4900	0	
2030	5000	5000	0	

Year	Project	Project Description	Estimated Budget (USD)	Actual Budget (USD)	Status
2018	Infrastructure Upgrade	Upgrade of network infrastructure and server hardware.	1,200,000	1,150,000	Completed
2019	Software Development	Development of a new CRM system for sales and marketing.	800,000	820,000	In Progress
2020	Marketing Campaign	Launch of a new product line with associated marketing activities.	500,000	480,000	Completed
2021	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	300,000	310,000	In Progress
2022	Research & Development	Investment in R&D for a new technology solution in the market.	1,500,000	1,400,000	On Hold
2023	Customer Support	Expansion of customer support services and training for staff.	400,000	390,000	Completed
2024	Compliance	Implementation of new data privacy regulations across all departments.	250,000	260,000	In Progress
2025	Human Resources	Recruitment and training of new hires for various roles.	600,000	580,000	Completed
2026	IT Security	Enhancement of IT security measures to protect sensitive data.	350,000	360,000	In Progress
2027	Business Development	Exploration of new market opportunities and partnerships.	700,000	680,000	On Hold
2028	Operational Efficiency	Optimization of supply chain management processes.	450,000	440,000	Completed
2029	Software Development	Development of a mobile application for customer engagement.	550,000	560,000	In Progress
2030	Marketing Campaign	Launch of a new product line with associated marketing activities.	650,000	630,000	Completed
2031	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	350,000	360,000	In Progress
2032	Research & Development	Investment in R&D for a new technology solution in the market.	1,800,000	1,700,000	On Hold
2033	Customer Support	Expansion of customer support services and training for staff.	450,000	440,000	Completed
2034	Compliance	Implementation of new data privacy regulations across all departments.	300,000	310,000	In Progress
2035	Human Resources	Recruitment and training of new hires for various roles.	700,000	680,000	Completed
2036	IT Security	Enhancement of IT security measures to protect sensitive data.	400,000	410,000	In Progress
2037	Business Development	Exploration of new market opportunities and partnerships.	800,000	780,000	On Hold
2038	Operational Efficiency	Optimization of supply chain management processes.	500,000	490,000	Completed
2039	Software Development	Development of a mobile application for customer engagement.	600,000	610,000	In Progress
2040	Marketing Campaign	Launch of a new product line with associated marketing activities.	700,000	680,000	Completed
2041	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	400,000	410,000	In Progress
2042	Research & Development	Investment in R&D for a new technology solution in the market.	2,000,000	1,900,000	On Hold
2043	Customer Support	Expansion of customer support services and training for staff.	500,000	490,000	Completed
2044	Compliance	Implementation of new data privacy regulations across all departments.	350,000	360,000	In Progress
2045	Human Resources	Recruitment and training of new hires for various roles.	800,000	780,000	Completed
2046	IT Security	Enhancement of IT security measures to protect sensitive data.	450,000	460,000	In Progress
2047	Business Development	Exploration of new market opportunities and partnerships.	900,000	880,000	On Hold
2048	Operational Efficiency	Optimization of supply chain management processes.	550,000	540,000	Completed
2049	Software Development	Development of a mobile application for customer engagement.	650,000	660,000	In Progress
2050	Marketing Campaign	Launch of a new product line with associated marketing activities.	750,000	730,000	Completed
2051	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	450,000	460,000	In Progress
2052	Research & Development	Investment in R&D for a new technology solution in the market.	2,200,000	2,100,000	On Hold
2053	Customer Support	Expansion of customer support services and training for staff.	550,000	540,000	Completed
2054	Compliance	Implementation of new data privacy regulations across all departments.	400,000	410,000	In Progress
2055	Human Resources	Recruitment and training of new hires for various roles.	900,000	880,000	Completed
2056	IT Security	Enhancement of IT security measures to protect sensitive data.	500,000	510,000	In Progress
2057	Business Development	Exploration of new market opportunities and partnerships.	1,000,000	980,000	On Hold
2058	Operational Efficiency	Optimization of supply chain management processes.	600,000	590,000	Completed
2059	Software Development	Development of a mobile application for customer engagement.	700,000	710,000	In Progress
2060	Marketing Campaign	Launch of a new product line with associated marketing activities.	800,000	780,000	Completed
2061	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	500,000	510,000	In Progress
2062	Research & Development	Investment in R&D for a new technology solution in the market.	2,400,000	2,300,000	On Hold
2063	Customer Support	Expansion of customer support services and training for staff.	600,000	590,000	Completed
2064	Compliance	Implementation of new data privacy regulations across all departments.	450,000	460,000	In Progress
2065	Human Resources	Recruitment and training of new hires for various roles.	1,000,000	980,000	Completed
2066	IT Security	Enhancement of IT security measures to protect sensitive data.	550,000	560,000	In Progress
2067	Business Development	Exploration of new market opportunities and partnerships.	1,100,000	1,080,000	On Hold
2068	Operational Efficiency	Optimization of supply chain management processes.	650,000	640,000	Completed
2069	Software Development	Development of a mobile application for customer engagement.	750,000	760,000	In Progress
2070	Marketing Campaign	Launch of a new product line with associated marketing activities.	850,000	830,000	Completed
2071	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	550,000	560,000	In Progress
2072	Research & Development	Investment in R&D for a new technology solution in the market.	2,600,000	2,500,000	On Hold
2073	Customer Support	Expansion of customer support services and training for staff.	650,000	640,000	Completed
2074	Compliance	Implementation of new data privacy regulations across all departments.	500,000	510,000	In Progress
2075	Human Resources	Recruitment and training of new hires for various roles.	1,100,000	1,080,000	Completed
2076	IT Security	Enhancement of IT security measures to protect sensitive data.	600,000	610,000	In Progress
2077	Business Development	Exploration of new market opportunities and partnerships.	1,200,000	1,180,000	On Hold
2078	Operational Efficiency	Optimization of supply chain management processes.	700,000	690,000	Completed
2079	Software Development	Development of a mobile application for customer engagement.	800,000	810,000	In Progress
2080	Marketing Campaign	Launch of a new product line with associated marketing activities.	900,000	880,000	Completed
2081	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	600,000	610,000	In Progress
2082	Research & Development	Investment in R&D for a new technology solution in the market.	2,800,000	2,700,000	On Hold
2083	Customer Support	Expansion of customer support services and training for staff.	700,000	690,000	Completed
2084	Compliance	Implementation of new data privacy regulations across all departments.	550,000	560,000	In Progress
2085	Human Resources	Recruitment and training of new hires for various roles.	1,200,000	1,180,000	Completed
2086	IT Security	Enhancement of IT security measures to protect sensitive data.	650,000	660,000	In Progress
2087	Business Development	Exploration of new market opportunities and partnerships.	1,300,000	1,280,000	On Hold
2088	Operational Efficiency	Optimization of supply chain management processes.	750,000	740,000	Completed
2089	Software Development	Development of a mobile application for customer engagement.	850,000	860,000	In Progress
2090	Marketing Campaign	Launch of a new product line with associated marketing activities.	950,000	930,000	Completed
2091	Operational Efficiency	Implementation of process automation tools to reduce manual tasks.	650,000	660,000	In Progress
2092	Research & Development	Investment in R&D for a new technology solution in the market.	3,000,000	2,900,000	On Hold
2093	Customer Support	Expansion of customer support services and training for staff.	750,000	740,000	Completed
2094	Compliance	Implementation of new data privacy regulations across all departments.	600,000	610,000	In Progress
2095	Human Resources	Recruitment and training of new hires for various roles.	1,300,000	1,280,000	Completed
2096	IT Security	Enhancement of IT security measures to protect sensitive data.	700,000	710,000	In Progress
2097	Business Development	Exploration of new market opportunities and partnerships.	1,400,000	1,380,000	On Hold
2098	Operational Efficiency	Optimization of supply chain management processes.	800,000	790,000	Completed
2099	Software Development	Development of a mobile application for customer engagement.	900,000	910,000	In Progress
2100	Marketing Campaign	Launch of a new product line with associated marketing activities.	1,000,000	980,000	Completed

**Unit 1: Foundations**

Unit	Topic	Learning Objectives	Assessment	Resources
1	Introduction to the course	Understand the course structure and expectations.	Self-reflection	Course syllabus
	Mathematical reasoning	Apply logical reasoning to solve problems.	Logic puzzles	Logic puzzles book
	Problem-solving strategies	Identify and use various problem-solving techniques.	Case studies	Problem-solving guide
	Collaborative learning	Work effectively in a team to solve complex problems.	Group projects	Teamwork manual
2	Mathematical foundations	Review basic mathematical concepts and operations.	Quizzes	Mathematics textbook
	Algebraic manipulation	Simplify algebraic expressions and solve linear equations.	Algebra exercises	Algebra workbook
	Geometry and trigonometry	Calculate areas and volumes of geometric shapes.	Geometry problems	Geometry textbook
	Calculus basics	Understand the concepts of differentiation and integration.	Calculus problems	Calculus textbook
3	Advanced problem-solving	Apply advanced mathematical techniques to real-world scenarios.	Complex case studies	Advanced problem-solving book
	Mathematical modeling	Use mathematical models to analyze and predict outcomes.	Modeling projects	Mathematical modeling guide
	Statistical analysis	Analyze data sets and draw statistical inferences.	Statistical analysis exercises	Statistics textbook
	Mathematical proof	Construct and understand mathematical proofs.	Proof-writing exercises	Proof-writing guide

Date	Particulars	Debit	Credit	Balance
1900	Jan 1			
	By Balance		1000	1000
	Jan 5	500		500
	Jan 10		200	700
	Jan 15	100		600
	Jan 20		150	750
	Jan 25	200		550
	Jan 30		100	650
	Feb 1	300		350
	Feb 5		250	600
	Feb 10	150		450
	Feb 15		100	550
	Feb 20	250		300
	Feb 25		150	450
	Feb 30	100		350
	Mar 1		200	550
	Mar 5	300		250
	Mar 10		150	400
	Mar 15	200		200
	Mar 20		100	300
	Mar 25	150		150
	Mar 30		50	200
	Apr 1	100		100
	Apr 5		50	150
	Apr 10	50		100
	Apr 15		25	125
	Apr 20	25		100
	Apr 25		10	110
	Apr 30	10		100
	May 1		50	150
	May 5	50		100
	May 10		25	125
	May 15	25		100
	May 20		10	110
	May 25	10		100
	May 30		50	150
	Jun 1	50		100
	Jun 5		25	125
	Jun 10	25		100
	Jun 15		10	110
	Jun 20	10		100
	Jun 25		50	150
	Jun 30	50		100
	Jul 1		25	125
	Jul 5	25		100
	Jul 10		10	110
	Jul 15	10		100
	Jul 20		50	150
	Jul 25	50		100
	Jul 30		25	125
	Aug 1	25		100
	Aug 5		10	110
	Aug 10	10		100
	Aug 15		50	150
	Aug 20	50		100
	Aug 25		25	125
	Aug 30	25		100
	Sep 1		10	110
	Sep 5	10		100
	Sep 10		50	150
	Sep 15	50		100
	Sep 20		25	125
	Sep 25	25		100
	Sep 30		10	110
	Oct 1	10		100
	Oct 5		50	150
	Oct 10	50		100
	Oct 15		25	125
	Oct 20	25		100
	Oct 25		10	110
	Oct 30	10		100
	Nov 1		50	150
	Nov 5	50		100
	Nov 10		25	125
	Nov 15	25		100
	Nov 20		10	110
	Nov 25	10		100
	Nov 30		50	150
	Dec 1	50		100
	Dec 5		25	125
	Dec 10	25		100
	Dec 15		10	110
	Dec 20	10		100
	Dec 25		50	150
	Dec 30	50		100
	Total	4000	4000	

Unit	Section	Section Title	Section Description	Section Number	Section Code
101	101	101-101	101-101	101-101	101-101
		101-102	101-102	101-102	101-102
		101-103	101-103	101-103	101-103
102	102	102-101	102-101	102-101	102-101
		102-102	102-102	102-102	102-102
		102-103	102-103	102-103	102-103
103	103	103-101	103-101	103-101	103-101
		103-102	103-102	103-102	103-102
		103-103	103-103	103-103	103-103
104	104	104-101	104-101	104-101	104-101
		104-102	104-102	104-102	104-102
		104-103	104-103	104-103	104-103
105	105	105-101	105-101	105-101	105-101
		105-102	105-102	105-102	105-102
		105-103	105-103	105-103	105-103
106	106	106-101	106-101	106-101	106-101
		106-102	106-102	106-102	106-102
		106-103	106-103	106-103	106-103
107	107	107-101	107-101	107-101	107-101
		107-102	107-102	107-102	107-102
		107-103	107-103	107-103	107-103
108	108	108-101	108-101	108-101	108-101
		108-102	108-102	108-102	108-102
		108-103	108-103	108-103	108-103
109	109	109-101	109-101	109-101	109-101
		109-102	109-102	109-102	109-102
		109-103	109-103	109-103	109-103
110	110	110-101	110-101	110-101	110-101
		110-102	110-102	110-102	110-102
		110-103	110-103	110-103	110-103

Project / System	Project / System	Project / System	Project / System	Project / System
1. [Illegible]	2. [Illegible]	3. [Illegible]	4. [Illegible]	5. [Illegible]
6. [Illegible]	7. [Illegible]	8. [Illegible]	9. [Illegible]	10. [Illegible]
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31. [Illegible]	32. [Illegible]	33. [Illegible]	34. [Illegible]	35. [Illegible]
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41. [Illegible]	42. [Illegible]	43. [Illegible]	44. [Illegible]	45. [Illegible]
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51. [Illegible]	52. [Illegible]	53. [Illegible]	54. [Illegible]	55. [Illegible]
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61. [Illegible]	62. [Illegible]	63. [Illegible]	64. [Illegible]	65. [Illegible]
66. [Illegible]	67. [Illegible]	68. [Illegible]	69. [Illegible]	70. [Illegible]
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91. [Illegible]	92. [Illegible]	93. [Illegible]	94. [Illegible]	95. [Illegible]
96. [Illegible]	97. [Illegible]	98. [Illegible]	99. [Illegible]	100. [Illegible]



Unit	System	Operational Status	Estimated Power Cost	Estimated Energy	Notes
1	1	1	1	1	1
		2	2	2	2
2	2	1	1	1	1
		2	2	2	2
3	3	1	1	1	1
		2	2	2	2
4	4	1	1	1	1
		2	2	2	2
5	5	1	1	1	1
		2	2	2	2
6	6	1	1	1	1
		2	2	2	2
7	7	1	1	1	1
		2	2	2	2
8	8	1	1	1	1
		2	2	2	2
9	9	1	1	1	1
		2	2	2	2
10	10	1	1	1	1
		2	2	2	2

Project Name	Project Manager	Start Date	End Date	Status	Progress (%)	Budget (k\$)	Actual Cost (k\$)	Quality Score	Risk Level
Project A	John Doe	2023-01-15	2023-03-31	Completed	100	120	115	95	Low
Project B	Jane Smith	2023-02-01	2023-04-30	In Progress	75	150	155	88	Medium
Project C	Mike Johnson	2023-03-01	2023-05-31	On Hold	20	180	180	70	High
Project D	Sarah Lee	2023-04-01	2023-06-30	Planned	0	200	200	60	Very High
Project E	David Kim	2023-05-01	2023-07-31	Completed	100	90	92	90	Low
Project F	Emily White	2023-06-01	2023-08-31	In Progress	50	110	110	85	Medium
Project G	Chris Brown	2023-07-01	2023-09-30	On Hold	10	130	130	65	High
Project H	Alex Green	2023-08-01	2023-10-31	Planned	0	160	160	55	Very High
Project I	Mia Black	2023-09-01	2023-11-30	Completed	100	80	80	92	Low
Project J	Noah Grey	2023-10-01	2024-01-31	In Progress	30	140	140	75	Medium

Year	Population	Area	Population Density	Area	Population Density
1950	100,000	100 sq km	1,000	100 sq km	1,000
1960	150,000	150 sq km	1,000	150 sq km	1,000
1970	200,000	200 sq km	1,000	200 sq km	1,000
1980	250,000	250 sq km	1,000	250 sq km	1,000
1990	300,000	300 sq km	1,000	300 sq km	1,000
2000	350,000	350 sq km	1,000	350 sq km	1,000
2010	400,000	400 sq km	1,000	400 sq km	1,000
2020	450,000	450 sq km	1,000	450 sq km	1,000

Field	Accession	Number	Volume	Page
1	1000	1000	1000	1000
2	1000	1000	1000	1000
3	1000	1000	1000	1000
4	1000	1000	1000	1000
5	1000	1000	1000	1000
6	1000	1000	1000	1000
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8	1000	1000	1000	1000
9	1000	1000	1000	1000
10	1000	1000	1000	1000
11	1000	1000	1000	1000
12	1000	1000	1000	1000
13	1000	1000	1000	1000
14	1000	1000	1000	1000
15	1000	1000	1000	1000
16	1000	1000	1000	1000
17	1000	1000	1000	1000
18	1000	1000	1000	1000
19	1000	1000	1000	1000
20	1000	1000	1000	1000
21	1000	1000	1000	1000
22	1000	1000	1000	1000
23	1000	1000	1000	1000
24	1000	1000	1000	1000
25	1000	1000	1000	1000
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28	1000	1000	1000	1000
29	1000	1000	1000	1000
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37	1000	1000	1000	1000
38	1000	1000	1000	1000
39	1000	1000	1000	1000
40	1000	1000	1000	1000
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99	1000	1000	1000	1000
100	1000	1000	1000	1000

Sl. No.	Particulars	Amount	Total
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Sl. No.	Program	Learning Objectives	Estimated Program Hours	Equivalent Courses	Prerequisites
1	Introduction to Business	Understand the business environment and the role of business in society. Identify the various types of business organizations and their characteristics. Understand the importance of business ethics and social responsibility.	3	MGMT 101	None
2	Business Mathematics	Apply mathematical concepts to business situations. Calculate interest, profit, and loss. Understand the importance of statistics in business.	3	MGMT 102	None
3	Business Law	Understand the legal aspects of business transactions. Identify the rights and responsibilities of business entities. Understand the importance of contracts and intellectual property.	3	MGMT 103	None
4	Business Communication	Develop effective communication skills for business. Write professional business letters and reports. Understand the importance of interpersonal communication.	3	MGMT 104	None
5	Business Management	Understand the management process and the role of management in business. Identify the various functions of management: planning, organizing, leading, and controlling. Understand the importance of strategic management.	3	MGMT 105	None
6	Business Finance	Understand the financial aspects of business. Calculate financial ratios and analyze financial statements. Understand the importance of budgeting and financial planning.	3	MGMT 106	None
7	Business Marketing	Understand the marketing process and the role of marketing in business. Identify the various marketing strategies and tactics. Understand the importance of market research and product development.	3	MGMT 107	None
8	Business Operations	Understand the operational aspects of business. Identify the various types of business organizations and their characteristics. Understand the importance of quality management and process improvement.	3	MGMT 108	None
9	Business Information Systems	Understand the role of information systems in business. Identify the various types of information systems and their applications. Understand the importance of data security and privacy.	3	MGMT 109	None
10	Business Ethics and Social Responsibility	Understand the importance of business ethics and social responsibility. Identify the various ethical issues and dilemmas in business. Understand the role of business in society.	3	MGMT 110	None

Sl. No.	Particulars	Estimated Amount	Actual Amount	Percentage
1	Salaries and Wages	100000	100000	100%
2	Grants-in-aid	50000	50000	100%
3	Income Tax	20000	20000	100%
4	Interest on Loans	15000	15000	100%
5	Depreciation	10000	10000	100%
6	Income from Investments	50000	50000	100%
7	Income from Property	30000	30000	100%
8	Income from Business	20000	20000	100%
9	Income from Other Sources	10000	10000	100%
10	Income from Government	50000	50000	100%
11	Income from Local Authorities	30000	30000	100%
12	Income from Companies	20000	20000	100%
13	Income from Firms	10000	10000	100%
14	Income from Partnerships	50000	50000	100%
15	Income from Sole Proprietors	30000	30000	100%
16	Income from Individuals	20000	20000	100%
17	Income from Estates	10000	10000	100%
18	Income from Trusts	50000	50000	100%
19	Income from Charitable Institutions	30000	30000	100%
20	Income from Religious Institutions	20000	20000	100%
21	Income from Educational Institutions	10000	10000	100%
22	Income from Social Institutions	50000	50000	100%
23	Income from Other Institutions	30000	30000	100%
24	Income from Unincorporated Firms	20000	20000	100%
25	Income from Partnerships	10000	10000	100%
26	Income from Sole Proprietors	50000	50000	100%
27	Income from Individuals	30000	30000	100%
28	Income from Estates	20000	20000	100%
29	Income from Trusts	10000	10000	100%
30	Income from Charitable Institutions	50000	50000	100%
31	Income from Religious Institutions	30000	30000	100%
32	Income from Educational Institutions	20000	20000	100%
33	Income from Social Institutions	10000	10000	100%
34	Income from Other Institutions	50000	50000	100%
35	Income from Unincorporated Firms	30000	30000	100%
36	Income from Partnerships	20000	20000	100%
37	Income from Sole Proprietors	10000	10000	100%
38	Income from Individuals	50000	50000	100%
39	Income from Estates	30000	30000	100%
40	Income from Trusts	20000	20000	100%
41	Income from Charitable Institutions	10000	10000	100%
42	Income from Religious Institutions	50000	50000	100%
43	Income from Educational Institutions	30000	30000	100%
44	Income from Social Institutions	20000	20000	100%
45	Income from Other Institutions	10000	10000	100%
46	Income from Unincorporated Firms	50000	50000	100%
47	Income from Partnerships	30000	30000	100%
48	Income from Sole Proprietors	20000	20000	100%
49	Income from Individuals	10000	10000	100%
50	Income from Estates	50000	50000	100%
51	Income from Trusts	30000	30000	100%
52	Income from Charitable Institutions	20000	20000	100%
53	Income from Religious Institutions	10000	10000	100%
54	Income from Educational Institutions	50000	50000	100%
55	Income from Social Institutions	30000	30000	100%
56	Income from Other Institutions	20000	20000	100%
57	Income from Unincorporated Firms	10000	10000	100%
58	Income from Partnerships	50000	50000	100%
59	Income from Sole Proprietors	30000	30000	100%
60	Income from Individuals	20000	20000	100%
61	Income from Estates	10000	10000	100%
62	Income from Trusts	50000	50000	100%
63	Income from Charitable Institutions	30000	30000	100%
64	Income from Religious Institutions	20000	20000	100%
65	Income from Educational Institutions	10000	10000	100%
66	Income from Social Institutions	50000	50000	100%
67	Income from Other Institutions	30000	30000	100%
68	Income from Unincorporated Firms	20000	20000	100%
69	Income from Partnerships	10000	10000	100%
70	Income from Sole Proprietors	50000	50000	100%
71	Income from Individuals	30000	30000	100%
72	Income from Estates	20000	20000	100%
73	Income from Trusts	10000	10000	100%
74	Income from Charitable Institutions	50000	50000	100%
75	Income from Religious Institutions	30000	30000	100%
76	Income from Educational Institutions	20000	20000	100%
77	Income from Social Institutions	10000	10000	100%
78	Income from Other Institutions	50000	50000	100%
79	Income from Unincorporated Firms	30000	30000	100%
80	Income from Partnerships	20000	20000	100%
81	Income from Sole Proprietors	10000	10000	100%
82	Income from Individuals	50000	50000	100%
83	Income from Estates	30000	30000	100%
84	Income from Trusts	20000	20000	100%
85	Income from Charitable Institutions	10000	10000	100%
86	Income from Religious Institutions	50000	50000	100%
87	Income from Educational Institutions	30000	30000	100%
88	Income from Social Institutions	20000	20000	100%
89	Income from Other Institutions	10000	10000	100%
90	Income from Unincorporated Firms	50000	50000	100%
91	Income from Partnerships	30000	30000	100%
92	Income from Sole Proprietors	20000	20000	100%
93	Income from Individuals	10000	10000	100%
94	Income from Estates	50000	50000	100%
95	Income from Trusts	30000	30000	100%
96	Income from Charitable Institutions	20000	20000	100%
97	Income from Religious Institutions	10000	10000	100%
98	Income from Educational Institutions	50000	50000	100%
99	Income from Social Institutions	30000	30000	100%
100	Income from Other Institutions	20000	20000	100%

Sl. No.	Project	Project Name	Project Start Date	Project End Date
1	...	...	...	...
2	...	...	...	...
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Year	Population	Area	Population Density	Area	Population Density
1950	100,000	100 sq km	1,000	100 sq km	1,000
1960	150,000	150 sq km	1,000	150 sq km	1,000
1970	200,000	200 sq km	1,000	200 sq km	1,000
1980	250,000	250 sq km	1,000	250 sq km	1,000
1990	300,000	300 sq km	1,000	300 sq km	1,000
2000	350,000	350 sq km	1,000	350 sq km	1,000
2010	400,000	400 sq km	1,000	400 sq km	1,000
2020	450,000	450 sq km	1,000	450 sq km	1,000

No.	Topic	Abstract	Source	Date
1	...	...	...	...
2	...	...	...	...
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Field	Unit Code	Unit Name	Prerequisites	Corequisites	Grade Range
Mathematics	MATH 101	Calculus I	MATH 100		1-4
	MATH 102	Calculus II	MATH 101		1-4
	MATH 103	Calculus III	MATH 102		1-4
Science	PHYS 101	Physics I			1-4
	PHYS 102	Physics II	PHYS 101		1-4
	PHYS 103	Physics III	PHYS 102		1-4
History	HIST 101	World History I			1-4
	HIST 102	World History II	HIST 101		1-4
	HIST 103	World History III	HIST 102		1-4
Literature	LITR 101	English I			1-4
	LITR 102	English II	LITR 101		1-4
	LITR 103	English III	LITR 102		1-4
Social Sciences	SOCI 101	Sociology			1-4
	POLY 101	Political Science			1-4
	ECON 101	Economics			1-4
Health	HEAL 101	Health I			1-4
	HEAL 102	Health II	HEAL 101		1-4
	HEAL 103	Health III	HEAL 102		1-4
Arts	ARTS 101	Art I			1-4
	ARTS 102	Art II	ARTS 101		1-4
	ARTS 103	Art III	ARTS 102		1-4

Code	Project	Investment Object	Available from	Investment	Annual Rate
1	...	...	...	...	...
2	...	...	...	...	...
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100	...	...	...	...	...

Case	Company	Product/Service	Market Segment	Revenue	Profit
1	Apple Inc.	iPhone 15 Pro Max	Smartphones	\$1,200,000,000	\$200,000,000
2	Microsoft	Office 365	Software	\$800,000,000	\$150,000,000
3	Amazon	Amazon Prime	Subscription	\$1,500,000,000	\$300,000,000
4	Google	Google AdSense	Advertising	\$900,000,000	\$180,000,000
5	Netflix	Netflix Premium	Streaming	\$1,100,000,000	\$220,000,000
6	Tesla	Tesla Model S	Electric Vehicles	\$700,000,000	\$140,000,000
7	Facebook	Facebook Ads	Advertising	\$850,000,000	\$170,000,000
8	Walmart	Walmart.com	E-commerce	\$1,300,000,000	\$260,000,000
9	Uber	Uber Pro	Transportation	\$600,000,000	\$120,000,000
10	Spotify	Spotify Premium	Streaming	\$500,000,000	\$100,000,000
11	LinkedIn	LinkedIn Ads	Advertising	\$400,000,000	\$80,000,000
12	Zoom	Zoom Pro	Video Conferencing	\$300,000,000	\$60,000,000
13	Slack	Slack Pro	Productivity	\$250,000,000	\$50,000,000
14	Dropbox	Dropbox Business	Cloud Storage	\$200,000,000	\$40,000,000
15	Zoom	Zoom Enterprise	Video Conferencing	\$150,000,000	\$30,000,000
16	Zoom	Zoom Government	Video Conferencing	\$100,000,000	\$20,000,000
17	Zoom	Zoom Education	Video Conferencing	\$50,000,000	\$10,000,000
18	Zoom	Zoom Healthcare	Video Conferencing	\$50,000,000	\$10,000,000
19	Zoom	Zoom Non-Profit	Video Conferencing	\$50,000,000	\$10,000,000
20	Zoom	Zoom Government	Video Conferencing	\$50,000,000	\$10,000,000

Date	Description	Particulars	Debit	Credit
1914	Jan 1	Balance forward		100.00
	Jan 15	By Cash	50.00	
	Jan 20	To Cash		25.00
	Jan 25	By Cash	75.00	
	Jan 30	To Cash		100.00
	Feb 5	By Cash	125.00	
	Feb 10	To Cash		50.00
	Feb 15	By Cash	100.00	
	Feb 20	To Cash		75.00
	Feb 25	By Cash	150.00	
	Feb 30	To Cash		100.00
	Mar 5	By Cash	175.00	
	Mar 10	To Cash		125.00
	Mar 15	By Cash	200.00	
	Mar 20	To Cash		150.00
	Mar 25	By Cash	225.00	
	Mar 30	To Cash		175.00
	Apr 5	By Cash	250.00	
	Apr 10	To Cash		200.00
	Apr 15	By Cash	275.00	
	Apr 20	To Cash		225.00
	Apr 25	By Cash	300.00	
	Apr 30	To Cash		250.00
	May 5	By Cash	325.00	
	May 10	To Cash		275.00
	May 15	By Cash	350.00	
	May 20	To Cash		300.00
	May 25	By Cash	375.00	
	May 30	To Cash		325.00
	Jun 5	By Cash	400.00	
	Jun 10	To Cash		350.00
	Jun 15	By Cash	425.00	
	Jun 20	To Cash		400.00
	Jun 25	By Cash	450.00	
	Jun 30	To Cash		425.00
	Jul 5	By Cash	475.00	
	Jul 10	To Cash		450.00
	Jul 15	By Cash	500.00	
	Jul 20	To Cash		475.00
	Jul 25	By Cash	525.00	
	Jul 30	To Cash		500.00
	Aug 5	By Cash	550.00	
	Aug 10	To Cash		525.00
	Aug 15	By Cash	575.00	
	Aug 20	To Cash		550.00
	Aug 25	By Cash	600.00	
	Aug 30	To Cash		575.00
	Sep 5	By Cash	625.00	
	Sep 10	To Cash		600.00
	Sep 15	By Cash	650.00	
	Sep 20	To Cash		625.00
	Sep 25	By Cash	675.00	
	Sep 30	To Cash		650.00
	Oct 5	By Cash	700.00	
	Oct 10	To Cash		675.00
	Oct 15	By Cash	725.00	
	Oct 20	To Cash		700.00
	Oct 25	By Cash	750.00	
	Oct 30	To Cash		725.00
	Nov 5	By Cash	775.00	
	Nov 10	To Cash		750.00
	Nov 15	By Cash	800.00	
	Nov 20	To Cash		775.00
	Nov 25	By Cash	825.00	
	Nov 30	To Cash		800.00
	Dec 5	By Cash	850.00	
	Dec 10	To Cash		825.00
	Dec 15	By Cash	875.00	
	Dec 20	To Cash		850.00
	Dec 25	By Cash	900.00	
	Dec 30	To Cash		875.00
	Total		10000.00	10000.00

Project	Project Name	Project Description	Project Status	Project Manager	Project Start	Project End
1	Project A	Project A Description	Completed	John Doe	2023-01-01	2023-03-31
2	Project B	Project B Description	In Progress	Jane Smith	2023-04-01	2023-06-30
3	Project C	Project C Description	On Hold	Mike Johnson	2023-07-01	2023-09-30
4	Project D	Project D Description	Planned	Sarah Lee	2023-10-01	2023-12-31
5	Project E	Project E Description	Completed	David Kim	2023-01-15	2023-02-28
6	Project F	Project F Description	In Progress	Emily White	2023-03-15	2023-05-15
7	Project G	Project G Description	On Hold	Chris Brown	2023-06-15	2023-08-15
8	Project H	Project H Description	Planned	Alex Green	2023-09-15	2023-11-15
9	Project I	Project I Description	Completed	Mia Black	2023-02-15	2023-04-15
10	Project J	Project J Description	In Progress	Noah Grey	2023-05-15	2023-07-15
11	Project K	Project K Description	On Hold	Liam Blue	2023-08-15	2023-10-15
12	Project L	Project L Description	Planned	Olivia Purple	2023-11-15	2024-01-15

Module	Content	Prerequisites	Assessment	ECTS
1	Introduction to the course			1
2	Mathematical induction			1
3	Number theory			1
4	Combinatorics			1
5	Graph theory			1
6	Algebra			1
7	Geometry			1
8	Calculus			1
9	Probability and statistics			1
10	Discrete mathematics			1
11	Logic			1
12	Set theory			1
13	Topology			1
14	Real analysis			1
15	Complex analysis			1
16	Linear algebra			1
17	Differential equations			1
18	Partial differential equations			1
19	Integral equations			1
20	Functional analysis			1
21	Operator theory			1
22	Harmonic analysis			1
23	Group theory			1
24	Ring theory			1
25	Field theory			1
26	Algebraic geometry			1
27	Number theory			1
28	Combinatorics			1
29	Graph theory			1
30	Algebra			1
31	Geometry			1
32	Calculus			1
33	Probability and statistics			1
34	Discrete mathematics			1
35	Logic			1
36	Set theory			1
37	Topology			1
38	Real analysis			1
39	Complex analysis			1
40	Linear algebra			1
41	Differential equations			1
42	Partial differential equations			1
43	Integral equations			1
44	Functional analysis			1
45	Operator theory			1
46	Harmonic analysis			1
47	Group theory			1
48	Ring theory			1
49	Field theory			1
50	Algebraic geometry			1





Year	Project Name	Location	Start Date	End Date	Status
2018	Project A	Location A	2018-01-01	2018-12-31	Completed
2019	Project B	Location B	2019-01-01	2019-12-31	In Progress
2020	Project C	Location C	2020-01-01	2020-12-31	On Hold
2021	Project D	Location D	2021-01-01	2021-12-31	Completed
2022	Project E	Location E	2022-01-01	2022-12-31	In Progress
2023	Project F	Location F	2023-01-01	2023-12-31	On Hold
2024	Project G	Location G	2024-01-01	2024-12-31	Completed
2025	Project H	Location H	2025-01-01	2025-12-31	In Progress
2026	Project I	Location I	2026-01-01	2026-12-31	On Hold
2027	Project J	Location J	2027-01-01	2027-12-31	Completed
2028	Project K	Location K	2028-01-01	2028-12-31	In Progress
2029	Project L	Location L	2029-01-01	2029-12-31	On Hold
2030	Project M	Location M	2030-01-01	2030-12-31	Completed



Table 1. Comparison of the effects of the different treatments on the growth and survival of the larvae.

Treatments	Survival (%)		Growth (mm)		Significance
	Survival	Survival	Growth	Growth	
Control	100	100	1.5	1.5	ns
100 mg/L	100	100	1.5	1.5	
200 mg/L	100	100	1.5	1.5	
400 mg/L	100	100	1.5	1.5	
800 mg/L	100	100	1.5	1.5	ns
1600 mg/L	100	100	1.5	1.5	
3200 mg/L	100	100	1.5	1.5	
6400 mg/L	100	100	1.5	1.5	
12800 mg/L	100	100	1.5	1.5	ns
25600 mg/L	100	100	1.5	1.5	
51200 mg/L	100	100	1.5	1.5	
102400 mg/L	100	100	1.5	1.5	
204800 mg/L	100	100	1.5	1.5	ns
409600 mg/L	100	100	1.5	1.5	
819200 mg/L	100	100	1.5	1.5	
1638400 mg/L	100	100	1.5	1.5	

Year	Project	Location	Value	Notes
1980	...	...	...	...
1981	...	...	...	...
1982	...	...	...	...
1983	...	...	...	...
1984	...	...	...	...
1985	...	...	...	...
1986	...	...	...	...
1987	...	...	...	...
1988	...	...	...	...
1989	...	...	...	...
1990	...	...	...	...
1991	...	...	...	...
1992	...	...	...	...
1993	...	...	...	...
1994	...	...	...	...
1995	...	...	...	...
1996	...	...	...	...
1997	...	...	...	...
1998	...	...	...	...
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File	Project Name	Project Status	Project Manager	Project Budget	Project Start	Project End
Project A	Project A - Phase 1	Completed	John Doe	\$100,000	2023-01-01	2023-03-31
	Project A - Phase 2	In Progress	Jane Smith	\$150,000	2023-04-01	2023-06-30
	Project A - Phase 3	Planned	John Doe	\$200,000	2023-07-01	2023-09-30
Project B	Project B - Phase 1	Completed	John Doe	\$120,000	2023-01-01	2023-03-31
	Project B - Phase 2	In Progress	Jane Smith	\$180,000	2023-04-01	2023-06-30
	Project B - Phase 3	Planned	John Doe	\$250,000	2023-07-01	2023-09-30
	Project B - Phase 4	Planned	Jane Smith	\$300,000	2023-10-01	2023-12-31
Project C	Project C - Phase 1	Completed	John Doe	\$150,000	2023-01-01	2023-03-31
	Project C - Phase 2	In Progress	Jane Smith	\$200,000	2023-04-01	2023-06-30
	Project C - Phase 3	Planned	John Doe	\$280,000	2023-07-01	2023-09-30
	Project C - Phase 4	Planned	Jane Smith	\$350,000	2023-10-01	2023-12-31
	Project C - Phase 5	Planned	John Doe	\$400,000	2024-01-01	2024-03-31
Project D	Project D - Phase 1	Completed	John Doe	\$180,000	2023-01-01	2023-03-31
	Project D - Phase 2	In Progress	Jane Smith	\$250,000	2023-04-01	2023-06-30
	Project D - Phase 3	Planned	John Doe	\$350,000	2023-07-01	2023-09-30
	Project D - Phase 4	Planned	Jane Smith	\$450,000	2023-10-01	2023-12-31
	Project D - Phase 5	Planned	John Doe	\$550,000	2024-01-01	2024-03-31
	Project D - Phase 6	Planned	Jane Smith	\$650,000	2024-04-01	2024-06-30

Code	Activity	Frequency	Duration	Priority	Notes
101	Project Planning	100%	100%	High	Initial phase, defining scope and objectives.
102	Task Assignment	100%	100%	High	Assigning tasks to team members.
103	Resource Allocation	100%	100%	High	Ensuring resources are available for tasks.
104	Task Execution	100%	100%	High	Carrying out the tasks assigned.
105	Task Monitoring	100%	100%	High	Tracking progress and identifying issues.
106	Task Reporting	100%	100%	High	Providing updates on task status.
107	Task Review	100%	100%	High	Conducting regular reviews of task performance.
108	Task Completion	100%	100%	High	Finalizing tasks and ensuring quality.
109	Task Archiving	100%	100%	High	Storing completed task records.
110	Task Deletion	100%	100%	High	Removing unnecessary task records.
111	Task Backup	100%	100%	High	Creating backups of task data.
112	Task Restore	100%	100%	High	Recovering task data from backups.
113	Task Migration	100%	100%	High	Moving task data between systems.
114	Task Integration	100%	100%	High	Connecting task data with other systems.
115	Task Synchronization	100%	100%	High	Ensuring data consistency across systems.
116	Task Security	100%	100%	High	Implementing security measures for task data.
117	Task Audit	100%	100%	High	Regularly checking task data for accuracy.
118	Task Compliance	100%	100%	High	Ensuring task data meets regulatory requirements.
119	Task Documentation	100%	100%	High	Creating and maintaining task-related documents.
120	Task Training	100%	100%	High	Providing training on task management tools.
121	Task Support	100%	100%	High	Assisting users with task management issues.
122	Task Maintenance	100%	100%	High	Performing routine maintenance on task systems.
123	Task Updates	100%	100%	High	Implementing updates to task management software.
124	Task Patching	100%	100%	High	Applying patches to address vulnerabilities.
125	Task Testing	100%	100%	High	Conducting tests to ensure task system reliability.
126	Task Deployment	100%	100%	High	Rolling out updates or new features.
127	Task Rollback	100%	100%	High	Reverting to a previous version if issues arise.
128	Task Backup	100%	100%	High	Creating backups of task data.
129	Task Restore	100%	100%	High	Recovering task data from backups.
130	Task Migration	100%	100%	High	Moving task data between systems.
131	Task Integration	100%	100%	High	Connecting task data with other systems.
132	Task Synchronization	100%	100%	High	Ensuring data consistency across systems.
133	Task Security	100%	100%	High	Implementing security measures for task data.
134	Task Audit	100%	100%	High	Regularly checking task data for accuracy.
135	Task Compliance	100%	100%	High	Ensuring task data meets regulatory requirements.
136	Task Documentation	100%	100%	High	Creating and maintaining task-related documents.
137	Task Training	100%	100%	High	Providing training on task management tools.
138	Task Support	100%	100%	High	Assisting users with task management issues.
139	Task Maintenance	100%	100%	High	Performing routine maintenance on task systems.
140	Task Updates	100%	100%	High	Implementing updates to task management software.
141	Task Patching	100%	100%	High	Applying patches to address vulnerabilities.
142	Task Testing	100%	100%	High	Conducting tests to ensure task system reliability.
143	Task Deployment	100%	100%	High	Rolling out updates or new features.
144	Task Rollback	100%	100%	High	Reverting to a previous version if issues arise.
145	Task Backup	100%	100%	High	Creating backups of task data.
146	Task Restore	100%	100%	High	Recovering task data from backups.
147	Task Migration	100%	100%	High	Moving task data between systems.
148	Task Integration	100%	100%	High	Connecting task data with other systems.
149	Task Synchronization	100%	100%	High	Ensuring data consistency across systems.
150	Task Security	100%	100%	High	Implementing security measures for task data.

Unit	Section	Unit Objectives	Instructional Strategies	Assessment
Unit 1: Introduction to Algebra	1.1	Identify and describe the real number system.	Direct instruction, class discussion	Exit ticket, quiz
	1.2	Perform operations with real numbers.	Modeling, group work	Formative assessment, project
	1.3	Use properties of real numbers to simplify expressions.	Guided practice, peer review	Classroom assessment, quiz
	1.4	Identify and describe the Cartesian coordinate system.	Graphing, real-world applications	Graphing assignment, quiz
	1.5	Graph linear functions and equations.	Graphing, technology use	Graphing assignment, quiz
Unit 2: Linear Equations and Functions	2.1	Identify and describe the slope of a line.	Graphing, slope triangle	Exit ticket, quiz
	2.2	Write the equation of a line given the slope and y-intercept.	Direct instruction, group work	Formative assessment, quiz
	2.3	Write the equation of a line given the slope and a point on the line.	Direct instruction, group work	Formative assessment, quiz
	2.4	Write the equation of a line given two points on the line.	Direct instruction, group work	Formative assessment, quiz
	2.5	Identify and describe the slope of a line.	Graphing, slope triangle	Exit ticket, quiz
Unit 3: Systems of Equations and Functions	3.1	Solve systems of linear equations in two variables.	Graphing, substitution, elimination	Formative assessment, quiz
	3.2	Solve systems of linear equations in three variables.	Graphing, substitution, elimination	Formative assessment, quiz
	3.3	Identify and describe the slope of a line.	Graphing, slope triangle	Exit ticket, quiz
	3.4	Write the equation of a line given the slope and y-intercept.	Direct instruction, group work	Formative assessment, quiz
	3.5	Write the equation of a line given the slope and a point on the line.	Direct instruction, group work	Formative assessment, quiz
Unit 4: Quadratic Equations and Functions	4.1	Identify and describe the properties of a parabola.	Graphing, real-world applications	Graphing assignment, quiz
	4.2	Solve quadratic equations by factoring.	Factoring, group work	Formative assessment, quiz
	4.3	Solve quadratic equations by completing the square.	Completing the square, group work	Formative assessment, quiz
	4.4	Solve quadratic equations by using the quadratic formula.	Quadratic formula, group work	Formative assessment, quiz
	4.5	Identify and describe the properties of a parabola.	Graphing, real-world applications	Graphing assignment, quiz
Unit 5: Rational Equations and Functions	5.1	Identify and describe the properties of a rational function.	Graphing, real-world applications	Graphing assignment, quiz
	5.2	Solve rational equations.	Factoring, group work	Formative assessment, quiz
	5.3	Solve rational inequalities.	Number line, group work	Formative assessment, quiz
	5.4	Identify and describe the properties of a rational function.	Graphing, real-world applications	Graphing assignment, quiz
	5.5	Solve rational equations.	Factoring, group work	Formative assessment, quiz



Unit	Reference Number	Reference from Unit	Reference	Page
Unit 1	1.1	Introduction to the course	1.1.1	1
	1.2	Unit 1.2.1	1.2.1.1	2
	1.3	Unit 1.3.1	1.3.1.1	3
Unit 2	2.1	Unit 2.1.1	2.1.1.1	4
	2.2	Unit 2.2.1	2.2.1.1	5
	2.3	Unit 2.3.1	2.3.1.1	6
Unit 3	3.1	Unit 3.1.1	3.1.1.1	7
	3.2	Unit 3.2.1	3.2.1.1	8
	3.3	Unit 3.3.1	3.3.1.1	9
Unit 4	4.1	Unit 4.1.1	4.1.1.1	10
	4.2	Unit 4.2.1	4.2.1.1	11
	4.3	Unit 4.3.1	4.3.1.1	12
Unit 5	5.1	Unit 5.1.1	5.1.1.1	13
	5.2	Unit 5.2.1	5.2.1.1	14
	5.3	Unit 5.3.1	5.3.1.1	15
Unit 6	6.1	Unit 6.1.1	6.1.1.1	16
	6.2	Unit 6.2.1	6.2.1.1	17
	6.3	Unit 6.3.1	6.3.1.1	18
Unit 7	7.1	Unit 7.1.1	7.1.1.1	19
	7.2	Unit 7.2.1	7.2.1.1	20
	7.3	Unit 7.3.1	7.3.1.1	21
Unit 8	8.1	Unit 8.1.1	8.1.1.1	22
	8.2	Unit 8.2.1	8.2.1.1	23
	8.3	Unit 8.3.1	8.3.1.1	24
Unit 9	9.1	Unit 9.1.1	9.1.1.1	25
	9.2	Unit 9.2.1	9.2.1.1	26
	9.3	Unit 9.3.1	9.3.1.1	27
Unit 10	10.1	Unit 10.1.1	10.1.1.1	28
	10.2	Unit 10.2.1	10.2.1.1	29
	10.3	Unit 10.3.1	10.3.1.1	30



Year	Project Name	Project Description	Start Date	End Date	Status
2018	Project A	Development of new software module	2018-01-15	2018-06-30	Completed
2019	Project B	Implementation of hardware upgrade	2019-03-01	2019-09-15	In Progress
2020	Project C	Research and development of AI algorithm	2020-02-01	2020-12-31	On Hold
2021	Project D	Deployment of cloud infrastructure	2021-04-10	2021-11-30	Completed
2022	Project E	Integration of IoT sensors in smart city	2022-01-01	2022-08-31	In Progress
2023	Project F	Optimization of data storage system	2023-05-01	2023-10-31	On Hold
2024	Project G	Development of mobile application	2024-03-15	2024-09-30	In Progress
2025	Project H	Implementation of blockchain technology	2025-01-01	2025-06-30	On Hold
2026	Project I	Research on quantum computing applications	2026-02-01	2026-12-31	On Hold
2027	Project J	Deployment of edge computing solutions	2027-04-01	2027-11-30	In Progress
2028	Project K	Integration of AR/VR in training modules	2028-01-15	2028-07-31	On Hold
2029	Project L	Development of autonomous vehicle software	2029-03-01	2029-09-30	In Progress
2030	Project M	Implementation of sustainable energy solutions	2030-05-01	2030-11-30	On Hold

Date	Particulars	Debit	Credit	Balance
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	To Cash			
	To Bank			
	To Debtors			
	To Creditors			
	To Salaries			
	To Rent			
	To Interest			
	To Dividends			
	To Income Tax			
	To Profit and Loss			
	To Balance c/d			
	Total			

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Site	Project Name	Project Description	Start Date	End Date	Status
Site 1	Project A	Construction of a new building	2020-01-01	2020-12-31	Completed
	Project B	Renovation of existing building	2021-01-01	2021-12-31	In Progress
	Project C	Installation of new equipment	2022-01-01	2022-12-31	Planned
Site 2	Project D	Construction of a new building	2020-01-01	2020-12-31	Completed
	Project E	Renovation of existing building	2021-01-01	2021-12-31	In Progress
	Project F	Installation of new equipment	2022-01-01	2022-12-31	Planned
Site 3	Project G	Construction of a new building	2020-01-01	2020-12-31	Completed
	Project H	Renovation of existing building	2021-01-01	2021-12-31	In Progress
	Project I	Installation of new equipment	2022-01-01	2022-12-31	Planned
Site 4	Project J	Construction of a new building	2020-01-01	2020-12-31	Completed
	Project K	Renovation of existing building	2021-01-01	2021-12-31	In Progress
	Project L	Installation of new equipment	2022-01-01	2022-12-31	Planned
Site 5	Project M	Construction of a new building	2020-01-01	2020-12-31	Completed
	Project N	Renovation of existing building	2021-01-01	2021-12-31	In Progress
	Project O	Installation of new equipment	2022-01-01	2022-12-31	Planned



Date	Time	Location	Weather	Observations	Remarks
1954	10:00	Landing	Clear	No birds seen	-
1954	10:30	Landing	Clear	No birds seen	-
1954	11:00	Landing	Clear	No birds seen	-
1954	11:30	Landing	Clear	No birds seen	-
1954	12:00	Landing	Clear	No birds seen	-
1954	12:30	Landing	Clear	No birds seen	-
1954	13:00	Landing	Clear	No birds seen	-
1954	13:30	Landing	Clear	No birds seen	-
1954	14:00	Landing	Clear	No birds seen	-



Year	Project	Location	Value	Notes
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# PROBABILITY

1. A fair die is thrown. Find the probability of getting a number less than 4.

2. A card is drawn from a well-shuffled deck of 52 cards. Find the probability of getting a king or a queen.

3. Two dice are thrown. Find the probability of getting a sum of 7.

4. A box contains 5 red balls and 3 white balls. Find the probability of drawing a red ball.

5. A number is chosen at random from the numbers 1 to 10. Find the probability of getting a prime number.

# 1.1.1. THE PROBLEM OF SUBSTITUTION

The problem of substitution arises in the context of a consumer's utility maximization problem. Consider a consumer with a utility function  $U(x_1, x_2)$  and a budget constraint  $p_1x_1 + p_2x_2 = I$ . The consumer's optimal choice is determined by the tangency of the budget line and an indifference curve. Now, suppose the price of good 1,  $p_1$ , increases. This rotates the budget line inward around the vertical intercept. The new optimal choice is found at the tangency of the new budget line and a higher indifference curve. The change in the quantity of good 1 demanded is the sum of two effects: a substitution effect and an income effect. The substitution effect is the change in the quantity of good 1 demanded if the consumer's income is adjusted so that the new budget line is parallel to the original budget line. The income effect is the change in the quantity of good 1 demanded due to the change in real income. The substitution effect is always negative, while the income effect is always positive. The total effect is the sum of these two effects. In the case of a normal good, the substitution effect is larger in magnitude than the income effect, so the total effect is negative. In the case of a Giffen good, the income effect is larger in magnitude than the substitution effect, so the total effect is positive.

Price	Quantity	Income Effect	Substitution Effect	Total Effect
10	10	0	0	0
12	9	1	2	3
14	8	2	3	5
16	7	3	4	7
18	6	4	5	9
20	5	5	6	11
22	4	6	7	13
24	3	7	8	15
26	2	8	9	17
28	1	9	10	19
30	0	10	11	21

Year	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030																																																																																																								
Value	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000
Value	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

The following text is a series of vertical lines of varying lengths, representing a list or index. The text is oriented vertically and is difficult to read due to the low resolution and high contrast of the image. It appears to be a list of items, possibly names or titles, arranged in a column. The text is located in the lower half of the page, below the table.







Year	1990	1995	2000	2005	2010	2015	2020
Population (millions)	5.3	5.7	6.1	6.5	6.9	7.3	7.7
GDP (trillion USD)	1.2	1.8	2.5	3.2	4.0	4.8	5.6
Urban population (%)	30	35	40	45	50	55	60
Life expectancy (years)	52	55	58	61	64	67	70

Source: World Bank, World Development Indicators (WDI). Data for 2020 is preliminary.

Answers

1. The correct answer is (D). The question asks for the value of  $x$  if  $2x + 3 = 7$ . Subtract 3 from both sides to get  $2x = 4$ . Divide both sides by 2 to get  $x = 2$ .

Answers

1. The correct answer is (D). The question asks for the value of  $x$  if  $3x - 5 = 10$ . Add 5 to both sides to get  $3x = 15$ . Divide both sides by 3 to get  $x = 5$ .

2. The correct answer is (C). The question asks for the value of  $x$  if  $4x + 2 = 14$ . Subtract 2 from both sides to get  $4x = 12$ . Divide both sides by 4 to get  $x = 3$ .

3. The correct answer is (B). The question asks for the value of  $x$  if  $5x - 7 = 18$ . Add 7 to both sides to get  $5x = 25$ . Divide both sides by 5 to get  $x = 5$ .



**PROBATION DEPARTMENT - PROBATION OFFICER'S REPORT**

Case No. **100-1000000000**

Probation Officer	Case No.	Date	Type of Case	Probation Officer	Court
John Doe	100-1000000000	10/10/2023	Misdemeanor	John Doe	District Court
John Doe	100-1000000000	10/10/2023	Misdemeanor	John Doe	District Court

## QUESTION 10

10. The following table shows the number of people who visited the museum in each month from January to December 2017.
- | Month     | Number of people |
|-----------|------------------|
| January   | 120              |
| February  | 150              |
| March     | 180              |
| April     | 200              |
| May       | 220              |
| June      | 250              |
| July      | 280              |
| August    | 300              |
| September | 280              |
| October   | 250              |
| November  | 220              |
| December  | 200              |
- (a) Calculate the mean number of people who visited the museum in each month.
- (b) Calculate the standard deviation of the number of people who visited the museum in each month.

**QUESTION**

1. A company has a total of 100 employees. The number of employees in each department is given in the table below. The company is considering a restructuring plan that will involve the following changes:

Department	Current Number of Employees	Proposed Number of Employees
Department A	25	30
Department B	30	25
Department C	15	10
Department D	10	15
Department E	10	10

**UNIT 10: THE HISTORY OF THE UNITED STATES**  
**LESSON 10.1: THE AMERICAN WEST**  
 THE AMERICAN WEST AND THE FRONTIER

**Objectives:**

Students will be able to identify the major geographical features of the American West, explain the significance of the frontier in American history, and describe the impact of westward expansion on the American West. Students will also be able to identify the major geographical features of the American West, explain the significance of the frontier in American history, and describe the impact of westward expansion on the American West.

Students will be able to identify the major geographical features of the American West, explain the significance of the frontier in American history, and describe the impact of westward expansion on the American West. Students will also be able to identify the major geographical features of the American West, explain the significance of the frontier in American history, and describe the impact of westward expansion on the American West.

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**Table 10.1**

Table 10.1: The American West and the Frontier. This table shows the major geographical features of the American West, the significance of the frontier in American history, and the impact of westward expansion on the American West.

Feature	Geographical Feature	Significance	Impact	Year	Location	Notes
1	Rockies	Major mountain range	Barrier to westward expansion	1800s	Colorado, Wyoming, New Mexico	Major obstacle to westward expansion
2	Sierra Nevada	Major mountain range	Barrier to westward expansion	1800s	California, Nevada	Major obstacle to westward expansion
3	Great Plains	Major grassland region	Home to Native Americans	1800s	Montana, Wyoming, Nebraska, Kansas, Oklahoma	Home to Native Americans
4	Southwest	Major desert region	Home to Native Americans	1800s	Arizona, New Mexico, California	Home to Native Americans
5	Frontier	Line of settlement	Symbol of westward expansion	1800s	Various locations	Symbol of westward expansion
6	Westward Expansion	Process of moving westward	Major event in American history	1800s	Various locations	Major event in American history

Year	Number of students	Number of students who passed	Number of students who failed	Percentage of students who passed
2018	100	75	25	75%
2019	120	90	30	75%

### Question 1

1. The table above shows the number of students who passed and failed in a mathematics exam in two consecutive years. Calculate the percentage of students who passed in each year.

### Question 2

2. A school has 100 students. In a mathematics exam, 75 students passed and 25 students failed. Calculate the percentage of students who passed in the exam.

Year	Number of students	Number of students who passed	Number of students who failed	Percentage of students who passed
2018	100	75	25	75%
2019	120	90	30	75%
2020	150	112.5	37.5	75%
2021	180	135	45	75%
2022	200	150	50	75%
2023	220	165	55	75%
2024	240	180	60	75%

3. The table above shows the number of students who passed and failed in a mathematics exam in six consecutive years. Calculate the percentage of students who passed in each year.

4. A school has 100 students. In a mathematics exam, 75 students passed and 25 students failed. Calculate the percentage of students who passed in the exam.

### Question 3

3. The table above shows the number of students who passed and failed in a mathematics exam in six consecutive years. Calculate the percentage of students who passed in each year.

4. A school has 100 students. In a mathematics exam, 75 students passed and 25 students failed. Calculate the percentage of students who passed in the exam.

5. The table above shows the number of students who passed and failed in a mathematics exam in six consecutive years. Calculate the percentage of students who passed in each year.

6. A school has 100 students. In a mathematics exam, 75 students passed and 25 students failed. Calculate the percentage of students who passed in the exam.

7. The table above shows the number of students who passed and failed in a mathematics exam in six consecutive years. Calculate the percentage of students who passed in each year.



The above 2011 observations are very different and indicate the growth

of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season.

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The above 2011-12 observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season.

## 2011-12 Season

The above 2011-12 observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season.

The above 2011-12 observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season. The above observations are very different and indicate the growth of the 2011-12 season.

**Table 1**

**Table 1: Parameters of the model for the different cases. The parameters are the same as in Table 1 of the main text.**

Case	Parameters	Initial state	Final state	Time (days)	Final state	Final state
1	...	...	...	...	...	...
2	...	...	...	...	...	...
3	...	...	...	...	...	...
4	...	...	...	...	...	...
5	...	...	...	...	...	...
6	...	...	...	...	...	...
7	...	...	...	...	...	...
8	...	...	...	...	...	...
9	...	...	...	...	...	...
10	...	...	...	...	...	...
11	...	...	...	...	...	...
12	...	...	...	...	...	...
13	...	...	...	...	...	...
14	...	...	...	...	...	...
15	...	...	...	...	...	...
16	...	...	...	...	...	...
17	...	...	...	...	...	...
18	...	...	...	...	...	...
19	...	...	...	...	...	...
20	...	...	...	...	...	...
21	...	...	...	...	...	...
22	...	...	...	...	...	...
23	...	...	...	...	...	...
24	...	...	...	...	...	...
25	...	...	...	...	...	...
26	...	...	...	...	...	...
27	...	...	...	...	...	...
28	...	...	...	...	...	...
29	...	...	...	...	...	...
30	...	...	...	...	...	...
31	...	...	...	...	...	...
32	...	...	...	...	...	...
33	...	...	...	...	...	...
34	...	...	...	...	...	...
35	...	...	...	...	...	...
36	...	...	...	...	...	...
37	...	...	...	...	...	...
38	...	...	...	...	...	...
39	...	...	...	...	...	...
40	...	...	...	...	...	...
41	...	...	...	...	...	...
42	...	...	...	...	...	...
43	...	...	...	...	...	...
44	...	...	...	...	...	...
45	...	...	...	...	...	...
46	...	...	...	...	...	...
47	...	...	...	...	...	...
48	...	...	...	...	...	...
49	...	...	...	...	...	...
50	...	...	...	...	...	...



### Question 1

For the following, write a brief (2-3 sentences) description of the process and the associated activities. (10 marks)

#### Table 1

Table 1 lists the activities and their associated costs. The table is divided into three parts: (a) activities, (b) activities, and (c) activities. The table is divided into three parts: (a) activities, (b) activities, and (c) activities.

Activity	Activity Name	Cost (\$)	Cost (\$)	Cost (\$)
a.	Activity 1	100	200	300
b.	Activity 2	150	300	450
c.	Activity 3	200	400	600
d.	Activity 4	250	500	750
e.	Activity 5	300	600	900
f.	Activity 6	350	700	1050
g.	Activity 7	400	800	1200
h.	Activity 8	450	900	1350
i.	Activity 9	500	1000	1500
j.	Activity 10	550	1100	1650
k.	Activity 11	600	1200	1800
l.	Activity 12	650	1300	1950
m.	Activity 13	700	1400	2100
n.	Activity 14	750	1500	2250
o.	Activity 15	800	1600	2400
p.	Activity 16	850	1700	2550
q.	Activity 17	900	1800	2700
r.	Activity 18	950	1900	2850
s.	Activity 19	1000	2000	3000
t.	Activity 20	1050	2100	3150
u.	Activity 21	1100	2200	3300
v.	Activity 22	1150	2300	3450
w.	Activity 23	1200	2400	3600
x.	Activity 24	1250	2500	3750
y.	Activity 25	1300	2600	3900
z.	Activity 26	1350	2700	4050
aa.	Activity 27	1400	2800	4200
ab.	Activity 28	1450	2900	4350
ac.	Activity 29	1500	3000	4500
ad.	Activity 30	1550	3100	4650
ae.	Activity 31	1600	3200	4800
af.	Activity 32	1650	3300	4950
ag.	Activity 33	1700	3400	5100
ah.	Activity 34	1750	3500	5250
ai.	Activity 35	1800	3600	5400
aj.	Activity 36	1850	3700	5550
ak.	Activity 37	1900	3800	5700
al.	Activity 38	1950	3900	5850
am.	Activity 39	2000	4000	6000
an.	Activity 40	2050	4100	6150
ao.	Activity 41	2100	4200	6300
ap.	Activity 42	2150	4300	6450
aq.	Activity 43	2200	4400	6600
ar.	Activity 44	2250	4500	6750
as.	Activity 45	2300	4600	6900
at.	Activity 46	2350	4700	7050
au.	Activity 47	2400	4800	7200
av.	Activity 48	2450	4900	7350
aw.	Activity 49	2500	5000	7500
ax.	Activity 50	2550	5100	7650
ay.	Activity 51	2600	5200	7800
az.	Activity 52	2650	5300	7950
ba.	Activity 53	2700	5400	8100
bb.	Activity 54	2750	5500	8250
bc.	Activity 55	2800	5600	8400
bd.	Activity 56	2850	5700	8550
be.	Activity 57	2900	5800	8700
bf.	Activity 58	2950	5900	8850
bg.	Activity 59	3000	6000	9000
bh.	Activity 60	3050	6100	9150
bi.	Activity 61	3100	6200	9300
bj.	Activity 62	3150	6300	9450
bk.	Activity 63	3200	6400	9600
bl.	Activity 64	3250	6500	9750
bm.	Activity 65	3300	6600	9900
bn.	Activity 66	3350	6700	10050
bo.	Activity 67	3400	6800	10200
bp.	Activity 68	3450	6900	10350
bq.	Activity 69	3500	7000	10500
br.	Activity 70	3550	7100	10650
bs.	Activity 71	3600	7200	10800
bt.	Activity 72	3650	7300	10950
bu.	Activity 73	3700	7400	11100
bv.	Activity 74	3750	7500	11250
bw.	Activity 75	3800	7600	11400
bx.	Activity 76	3850	7700	11550
by.	Activity 77	3900	7800	11700
bz.	Activity 78	3950	7900	11850
ca.	Activity 79	4000	8000	12000
cb.	Activity 80	4050	8100	12150
cc.	Activity 81	4100	8200	12300
cd.	Activity 82	4150	8300	12450
ce.	Activity 83	4200	8400	12600
cf.	Activity 84	4250	8500	12750
cg.	Activity 85	4300	8600	12900
ch.	Activity 86	4350	8700	13050
ci.	Activity 87	4400	8800	13200
cj.	Activity 88	4450	8900	13350
ck.	Activity 89	4500	9000	13500
cl.	Activity 90	4550	9100	13650
cm.	Activity 91	4600	9200	13800
cn.	Activity 92	4650	9300	13950
co.	Activity 93	4700	9400	14100
cp.	Activity 94	4750	9500	14250
cq.	Activity 95	4800	9600	14400
cr.	Activity 96	4850	9700	14550
cs.	Activity 97	4900	9800	14700
ct.	Activity 98	4950	9900	14850
cu.	Activity 99	5000	10000	15000

The table lists the activities and their associated costs. The table is divided into three parts: (a) activities, (b) activities, and (c) activities. The table is divided into three parts: (a) activities, (b) activities, and (c) activities.

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### Question 2

The table lists the activities and their associated costs. The table is divided into three parts: (a) activities, (b) activities, and (c) activities. The table is divided into three parts: (a) activities, (b) activities, and (c) activities.

### Question 3

Question 11: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

Question 12: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

Question 13: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

Question 14: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

Question 15: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

Question 16: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

Question 17: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

Question 18: The price of a good is \$100 and the quantity demanded is 100 units. If the price falls to \$90, the quantity demanded will be 110 units. The price elasticity of demand is:

- a. 0.11
- b. 0.10
- c. 0.09
- d. 0.08

1. **Introduction**  
2. **Methodology**  
3. **Results and Discussion**  
4. **Conclusion**

1. **Introduction**  
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1. **Introduction**  
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3. **Results and Discussion**  
4. **Conclusion**

1. **Einleitung** (10 Punkte)  
Beschreiben Sie die Aufgabenstellung.

2. **Problemstellung** (20 Punkte)  
Gegeben sei die Funktion  $f(x) = x^2 + 2x - 3$ . Berechnen Sie die Nullstellen.

3. **Lösungsweg** (10 Punkte)  
Zeigen Sie, dass die Funktion  $f(x)$  für  $x > 0$  monoton wachsend ist.

4. **Ergebn** (10 Punkte)  
Die Nullstellen sind  $x_1 = -3$  und  $x_2 = 1$ .  
Die Funktion ist für  $x > 0$  monoton wachsend.

5. **Zusammenfassung** (10 Punkte)  
Fassen Sie die Ergebnisse zusammen.  
Die Nullstellen sind  $x_1 = -3$  und  $x_2 = 1$ .  
Die Funktion ist für  $x > 0$  monoton wachsend.

6. **Beispiel** (10 Punkte)  
Berechnen Sie die Nullstellen der Funktion  $f(x) = x^2 - 4$ .

### **Beispiel**

7. **Problemstellung** (20 Punkte)  
Gegeben sei die Funktion  $f(x) = x^2 - 4$ . Berechnen Sie die Nullstellen.

8. **Lösungsweg** (10 Punkte)  
Zeigen Sie, dass die Funktion  $f(x)$  für  $x > 0$  monoton wachsend ist.

9. **Ergebn** (10 Punkte)  
Die Nullstellen sind  $x_1 = -2$  und  $x_2 = 2$ .  
Die Funktion ist für  $x > 0$  monoton wachsend.

### **Beispiel**

10. **Problemstellung** (10 Punkte)  
Berechnen Sie die Nullstellen der Funktion  $f(x) = x^2 - 9$ .

- 11. **Lösungsweg** (10 Punkte)  
Zeigen Sie, dass die Funktion  $f(x)$  für  $x > 0$  monoton wachsend ist.
- 12. **Ergebn** (10 Punkte)  
Die Nullstellen sind  $x_1 = -3$  und  $x_2 = 3$ .  
Die Funktion ist für  $x > 0$  monoton wachsend.
- 13. **Zusammenfassung** (10 Punkte)  
Fassen Sie die Ergebnisse zusammen.  
Die Nullstellen sind  $x_1 = -3$  und  $x_2 = 3$ .  
Die Funktion ist für  $x > 0$  monoton wachsend.

1. **Introduction** (10%)  
2. **Background** (10%)

### **3. Methodology**

3.1. **Study Design** (10%)  
3.2. **Participants** (10%)  
3.3. **Intervention** (10%)  
3.4. **Outcome Measures** (10%)  
3.5. **Data Collection** (10%)  
3.6. **Data Analysis** (10%)

### **4. Results**

4.1. **Demographic Data** (10%)  
4.2. **Baseline Characteristics** (10%)  
4.3. **Primary Outcome** (10%)  
4.4. **Secondary Outcomes** (10%)  
4.5. **Adverse Events** (10%)  
4.6. **Subgroup Analysis** (10%)  
4.7. **Sensitivity Analysis** (10%)  
4.8. **Limitations** (10%)

### **5. Discussion**

5.1. **Summary of Findings** (10%)  
5.2. **Interpretation** (10%)  
5.3. **Implications** (10%)  
5.4. **Conclusions** (10%)

### **6. Conclusion**

6.1. **Summary** (10%)

6.2. **References** (10%)

### **7. Appendix**

7.1. **Supplementary Materials** (10%)

7.2. **Tables** (10%)

7.3. **Figures** (10%)

### **8. Index**

8.1. **Indexing** (10%)

### **9. Glossary**

9.1. **Definitions** (10%)

### 1. The following are all valid arguments:

1.  $\neg A \rightarrow B$

2.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $B \rightarrow C$

3.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

4.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

### 2. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

2.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

### 3. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

### 4. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

2.  $A \rightarrow B$

3.  $A \rightarrow C$  and  $A \rightarrow B$  together imply  $A \rightarrow (B \wedge C)$

4.  $A \rightarrow B$

5.  $A \rightarrow C$  and  $A \rightarrow B$  together imply  $A \rightarrow (B \wedge C)$

6.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

7.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

### 5. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

2.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

3.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

4.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

5.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

6.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

### 6. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

2.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

3.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

4.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

### 7. The following are all valid arguments:

1.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

2.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \vee C)$

3.  $A \rightarrow B$  and  $A \rightarrow C$  together imply  $A \rightarrow (B \wedge C)$

### 8. The following are all valid arguments:

The following information is provided for the purpose of illustrating the application of the provisions of the Act. It is not intended to constitute an offer of insurance or any other financial product. The information is provided for general information only and should not be relied upon as a basis for investment decisions. The information is provided for general information only and should not be relied upon as a basis for investment decisions. The information is provided for general information only and should not be relied upon as a basis for investment decisions.

**Additional Information**

The following information is provided for the purpose of illustrating the application of the provisions of the Act. It is not intended to constitute an offer of insurance or any other financial product. The information is provided for general information only and should not be relied upon as a basis for investment decisions.

## QUESTION 101

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**Program 101**

**Project 101** ... (faint text) ...

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**Program 102**

**Project 102** ... (faint text) ...

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**Program 103**

... (faint text) ...

... (faint text) ...

**Program 104**

**Project 104** ... (faint text) ...

... (faint text) ...



1. The following are the main components of the system: (a) the user interface, (b) the data base, (c) the processing unit, and (d) the output device. The user interface is the part of the system that the user interacts with. It includes the keyboard, mouse, and monitor. The data base is the part of the system that stores the data. It is a collection of related data organized in a way that allows for easy access and retrieval. The processing unit is the part of the system that performs the operations on the data. It is the central processing unit (CPU) of the computer. The output device is the part of the system that displays the results of the operations. It includes the monitor, printer, and speaker.

## 2. Program 101

1. The first step is to create a new project in the IDE. This can be done by clicking on the 'File' menu and selecting 'New Project'.

2. The next step is to create a new class. This can be done by clicking on the 'Class' button in the IDE. This will create a new class file with the name of the class.

## 3. Program 102

1. The first step is to create a new project in the IDE. This can be done by clicking on the 'File' menu and selecting 'New Project'.

2. The next step is to create a new class. This can be done by clicking on the 'Class' button in the IDE. This will create a new class file with the name of the class.

## 4. Program 103

1. The first step is to create a new project in the IDE. This can be done by clicking on the 'File' menu and selecting 'New Project'.

## 5. Program 104

1. The first step is to create a new project in the IDE. This can be done by clicking on the 'File' menu and selecting 'New Project'.

2. The next step is to create a new class. This can be done by clicking on the 'Class' button in the IDE. This will create a new class file with the name of the class.

3. The next step is to create a new method. This can be done by clicking on the 'Method' button in the IDE. This will create a new method in the class.

4. The next step is to create a new variable. This can be done by clicking on the 'Variable' button in the IDE. This will create a new variable in the method.

5. The next step is to create a new object. This can be done by clicking on the 'Object' button in the IDE. This will create a new object of the class.

## 6. Program 105

1. The first step is to create a new project in the IDE. This can be done by clicking on the 'File' menu and selecting 'New Project'.

2. The next step is to create a new class. This can be done by clicking on the 'Class' button in the IDE. This will create a new class file with the name of the class.

3. The next step is to create a new method. This can be done by clicking on the 'Method' button in the IDE. This will create a new method in the class.

4. The next step is to create a new variable. This can be done by clicking on the 'Variable' button in the IDE. This will create a new variable in the method.

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1. The first part of the document is a title page containing the title, author, and date.

Date	Time	Location	Weather	Observations	Remarks
10/10/2023	08:00	Forest	Clear	Birds singing	Normal
10/11/2023	09:00	Park	Sunny	Many people	Busy
10/12/2023	10:00	Beach	Windy	Surfing	Fun
10/13/2023	11:00	Mountain	Foggy	Hiking	Challenging
10/14/2023	12:00	City	Rainy	Traffic	Stressful
10/15/2023	13:00	Lake	Clear	Fishing	Relaxing
10/16/2023	14:00	Garden	Sunny	Planting	Productive
10/17/2023	15:00	Office	Normal	Work	Busy

Year	1990	1991	1992	1993	1994
1990	100	100	100	100	100
1991	100	100	100	100	100
1992	100	100	100	100	100
1993	100	100	100	100	100
1994	100	100	100	100	100

日期	星期	天气	温度	地点	事件	备注
2023.10.01	星期一	晴	15-25	学校	上课	
2023.10.02	星期二	阴	12-20	学校	上课	
2023.10.03	星期三	雨	10-18	学校	上课	
2023.10.04	星期四	晴	18-28	学校	上课	
2023.10.05	星期五	晴	20-30	学校	上课	
2023.10.06	星期六	晴	22-32	公园	游玩	
2023.10.07	星期日	晴	25-35	家里	休息	
2023.10.08	星期一	晴	20-30	学校	上课	
2023.10.09	星期二	阴	18-28	学校	上课	
2023.10.10	星期三	雨	15-25	学校	上课	
2023.10.11	星期四	晴	22-32	学校	上课	
2023.10.12	星期五	晴	25-35	学校	上课	
2023.10.13	星期六	晴	28-38	郊外	游玩	
2023.10.14	星期日	晴	30-40	家里	休息	
2023.10.15	星期一	晴	25-35	学校	上课	
2023.10.16	星期二	阴	20-30	学校	上课	
2023.10.17	星期三	雨	18-28	学校	上课	
2023.10.18	星期四	晴	25-35	学校	上课	
2023.10.19	星期五	晴	28-38	学校	上课	
2023.10.20	星期六	晴	30-40	郊外	游玩	
2023.10.21	星期日	晴	32-42	家里	休息	
2023.10.22	星期一	晴	28-38	学校	上课	
2023.10.23	星期二	阴	25-35	学校	上课	
2023.10.24	星期三	雨	22-32	学校	上课	
2023.10.25	星期四	晴	28-38	学校	上课	
2023.10.26	星期五	晴	30-40	学校	上课	
2023.10.27	星期六	晴	32-42	郊外	游玩	
2023.10.28	星期日	晴	35-45	家里	休息	
2023.10.29	星期一	晴	30-40	学校	上课	
2023.10.30	星期二	阴	28-38	学校	上课	
2023.10.31	星期三	雨	25-35	学校	上课	



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024																															
Q1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0																											
Q2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0																		
Q3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0									
Q4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0



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8. **The Effect of the Administration of a Single Dose of a New Oral Contraceptive on the Menstrual Cycle: A Study of the Effect of a Single Dose of a New Oral Contraceptive on the Menstrual Cycle.**

**1. The Industrial Revolution and the 19th Century**

**1.1. Overview**

The Industrial Revolution was a period of major change in the way that goods were produced. It began in the late 18th century and continued into the 19th century. This period saw the rise of factories and the use of machinery, which led to a massive increase in production. The Industrial Revolution also led to the growth of cities and the development of new technologies.

**2. The Industrial Revolution and the 19th Century**

**2.1. Overview**

The Industrial Revolution was a period of major change in the way that goods were produced.

It began in the late 18th century.

It continued into the 19th century.

This period saw the rise of factories.

It led to a massive increase in production.

The Industrial Revolution also led to the growth of cities and the development of new technologies.

The Industrial Revolution was a period of major change in the way that goods were produced.

**2.2. Overview**

The Industrial Revolution was a period of major change in the way that goods were produced.

Year	Event
1780	James Watt's steam engine
1784	Richard Arkwright's water frame
1789	James Hargreaves' spinning jenny
1825	George Stephenson's steam locomotive
1846	Isaac Newton's steam engine

**2.3. Overview**

The Industrial Revolution was a period of major change in the way that goods were produced.

The Industrial Revolution was a period of major change in the way that goods were produced.

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The Industrial Revolution was a period of major change in the way that goods were produced.

The Industrial Revolution was a period of major change in the way that goods were produced.

**QUESTION 1**

1.1	1.1
1.2	1.2
1.3	1.3

**QUESTION 2**

2.1	2.1
2.2	2.2
2.3	2.3

**QUESTION 3**

QUESTION 3

3.1	3.1
3.2	3.2
3.3	3.3
3.4	3.4

QUESTION 4

4.1	4.1
4.2	4.2
4.3	4.3





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# QUESTION BANK ON THE HISTORY OF INDIAN LITERATURE

## UNIT - 1

### QUESTION

1. Define the term 'epic' and give an account of the two great Indian epics, the Ramayana and the Mahabharata. Mention the main characters and the central themes of each.

2. Discuss the role of the epic in the development of Indian literature.

### ANSWER

#### QUESTION

1. Define the term 'epic' and give an account of the two great Indian epics, the Ramayana and the Mahabharata. Mention the main characters and the central themes of each.
2. Discuss the role of the epic in the development of Indian literature.

### ANSWER

1. An epic is a long narrative poem, usually consisting of one or more books, that tells of heroic deeds and events. The two great Indian epics are the Ramayana and the Mahabharata. The Ramayana is the story of the life of Lord Rama, who was abducted by the demon king Ravana. The Mahabharata is the story of the war between the Pandavas and the Kauravas.
2. The epic plays a significant role in the development of Indian literature. It is a form of literature that has been popular since ancient times. It is a form of literature that has been popular since ancient times. It is a form of literature that has been popular since ancient times.

#### QUESTION

1. Define the term 'epic' and give an account of the two great Indian epics, the Ramayana and the Mahabharata. Mention the main characters and the central themes of each.
2. Discuss the role of the epic in the development of Indian literature.

## QUESTION 1: (Problem based on Question 1 of the 2012/2013 Exam)

### Question

The market equilibrium price is \$100 and the quantity demanded is 100 units. The supply curve is given by  $Q_s = 200 - 2P$  and the demand curve is given by  $Q_d = 200 - 4P$ . The government imposes a tax of \$20 per unit. The supply curve shifts to  $Q_s = 180 - 2P$  and the demand curve remains the same.

- a. Calculate the change in consumer surplus and producer surplus.

### Answer

Let  $Q$  and  $P$  denote quantity and price, respectively.

Initially,

supply is  $Q_s = 200 - 2P$

and demand is  $Q_d = 200 - 4P$

At equilibrium,  $Q_s = Q_d = 100$  and  $P = 50$ .

After the tax is imposed, the supply curve shifts to  $Q_s = 180 - 2P$  and the demand curve remains the same. The new equilibrium quantity is 80 and the price is \$70.

### Question

Suppose the market price is \$100 and the quantity demanded is 100 units.

Quantity	Price
0	100
100	0

### Answer

Let  $Q$  and  $P$  denote quantity and price, respectively.

Quantity	Price
0	100
100	0

**UNIT 10 | The Future of Work and Technology**

Activity 1

7

**Reading**

Read the text and answer the questions. Use the information in the text to help you. Write your answers in the spaces provided.

Question	Answer
1. What is the main topic of the text?	_____
2. How does the author describe the future of work?	_____
3. What are the benefits of automation?	_____
4. What are the challenges of automation?	_____

Activity 2

8

Read the text and answer the questions. Use the information in the text to help you. Write your answers in the spaces provided.

**UNIT 11 | The Impact of Climate Change**

Activity 1

7

Question	Answer
1. What is the main cause of climate change?	_____
2. How does climate change affect the environment?	_____
3. What are the consequences of climate change for humans?	_____
Section Header	Section Header
4. What are the solutions to climate change?	_____
5. How can we reduce our carbon footprint?	_____

**UNIT 1: THE HISTORY OF THE UNITED STATES**

**1.1 The Founding Fathers**

The Founding Fathers were the men who drafted the original Constitution of the United States. They met in 1787 in Philadelphia to create a new form of government for the young nation.

The Founding Fathers were divided into two main groups: the Federalists and the Anti-Federalists. The Federalists, led by Alexander Hamilton, supported the new Constitution. The Anti-Federalists, led by Thomas Jefferson, opposed it, fearing a strong central government would threaten individual liberties.

Founding Father	Key Contribution
George Washington	Presided over the Constitutional Convention and became the first President of the United States.
James Madison	Known as the "Father of the Constitution," he drafted the original Constitution and the Bill of Rights.
Thomas Jefferson	Author of the Declaration of Independence and a strong proponent of individual liberties.
Alexander Hamilton	Co-author of the Federalist Papers, which argued in favor of the new Constitution.
Benjamin Franklin	Helped negotiate the final agreement on the Constitution and became the first Vice President.

The Constitution was signed on September 17, 1787, in Independence Hall, Philadelphia. It became the supreme law of the United States.

**UNIT 2: THE AMERICAN WEST**

The American West was a region of land that stretched from the Rocky Mountains to the Pacific Ocean. It was a land of opportunity and adventure, attracting settlers from all over the world. The West was a land of vast open spaces, where people could start new lives and build a better future for themselves.

The West was a land of discovery and exploration. Explorers like Lewis and Clark, and later gold miners, discovered new lands and resources. The West was a land of freedom and opportunity, where people could make their own destinies.





News

Michigan's new law of professional liability insurance for all those who provide services to animals is a landmark. The law is the first of its kind in the United States and is a major step in the protection of animals.

The law requires that all veterinarians, farriers, and other animal care professionals carry liability insurance. The law also requires that the insurance be for a minimum of \$1 million.

The law is effective January 1, 1992. It is a landmark in the history of animal care.

News

The American Veterinary Medical Association has announced that it will be launching a new program to help veterinarians in the developing world.

The program is called the "Veterinarian Relief Fund."

News

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News

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Continued on page 10

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News

Continued on page 10

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News

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Continued on page 10

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Continued on page 10

Continued on page 10

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Continued on page 10

**UNIT 10: THE HISTORY OF THE UNITED STATES**

1. The American Revolution was fought in 1775-1783.  
2. The Declaration of Independence was signed in 1776.

**Question 1**

What year was the American Revolution fought?

**Answer 1**

The American Revolution was fought from 1775 to 1783.

**Question 2**

When was the Declaration of Independence signed?

**Answer 2**

The Declaration of Independence was signed in 1776.

**Question 3**

What year did the American Revolution end?

**Answer 3**

The American Revolution ended in 1783.

**Question 4**

What year was the Declaration of Independence signed?

- A. 1775
- B. 1776
- C. 1783
- D. 1781

The correct answer is B. 1776.

UNIT 11: THE AMERICAN WEST  
The American West was a region of the United States that was explored and settled by pioneers in the 18th and 19th centuries. It was a vast area of land that stretched from the Rocky Mountains to the Pacific Ocean. The pioneers who settled the West were looking for new opportunities and a better life. They were often faced with many challenges, such as lack of resources and harsh weather. Despite these challenges, they succeeded in building a new society in the West. The American West played a significant role in the history of the United States.



### Example 1

Write the equation of the line that passes through the point  $(-2, 3)$  and is perpendicular to the line  $y = 2x + 1$ .

### Solution

The slope of the line  $y = 2x + 1$  is 2. The slope of a line perpendicular to this line is  $-\frac{1}{2}$ .

Using the point-slope form of a line, the equation of the line is  $y - 3 = -\frac{1}{2}(x + 2)$ . Simplifying, we get  $y - 3 = -\frac{1}{2}x - 1$ . Adding 3 to both sides, we get  $y = -\frac{1}{2}x + 2$ . This is the equation of the line that passes through the point  $(-2, 3)$  and is perpendicular to the line  $y = 2x + 1$ .

Write the equation of the line that passes through the point  $(1, -2)$  and is perpendicular to the line  $y = -3x + 4$ .

The slope of the line  $y = -3x + 4$  is  $-3$ . The slope of a line perpendicular to this line is  $\frac{1}{3}$ .

Write the equation of the line that passes through the point  $(-1, 4)$  and is perpendicular to the line  $y = \frac{1}{2}x + 3$ .

### Example 2

Write the equation of the line that passes through the point  $(2, -1)$  and is perpendicular to the line  $y = 4x - 5$ .

### Example 3

Write the equation of the line that passes through the point  $(-3, 2)$  and is perpendicular to the line  $y = -\frac{1}{3}x + 1$ .

Write the equation of the line that passes through the point  $(4, -2)$  and is perpendicular to the line  $y = 2x - 3$ .

### Example 4

Write the equation of the line that passes through the point  $(-1, 3)$  and is perpendicular to the line  $y = \frac{2}{3}x + 1$ .

Write the equation of the line that passes through the point  $(2, -4)$  and is perpendicular to the line  $y = -\frac{1}{2}x + 3$ .

1998-1999 BUDGETING AND FINANCIAL STATEMENTS

Section 1

1. The Board of Directors of the Corporation has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

2. The Board of Directors is not aware of any changes in accounting principles or practices, or any changes in the accounting policies of the Corporation, which would materially affect the financial statements.

- 3. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

4. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

Section 2

5. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

Section 3

6. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

- 7. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

8. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.

9. The Board of Directors has reviewed the financial statements of the Corporation for the year ended December 31, 1998, and has determined that the financial statements are presented fairly in all material aspects the financial position, results of operations and cash flows of the Corporation as of and for the year ended December 31, 1998, in accordance with the accounting principles generally accepted in the United States of America. The financial statements were prepared by the Corporation's management.



**PROYECTO DE LEY N.º 10.000/2016**

<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>
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<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>
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<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>	<b>PROYECTO DE LEY N.º 10.000/2016</b>
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**Abstract**

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**Journal of Business Administration**

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