

*Маркетинговое агентство*

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**Отчет**  
**«Исследование рынка гидромуфт»**

Март 2024 г.

г. Санкт-Петербург

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## **Описание исследования**

**Цель проекта:** анализ состояния российского рынка гидромурфт и составление прогноза развития рынка в среднесрочной перспективе.

### **Задачи исследования:**

1. Оценка размера и динамики рынка;
2. Определение основных тенденций, влияющих на спрос;
3. Определение структуры рынка (производство, импорт, экспорт);
4. Определение основных конкурентов, составление профилей конкурентов;
5. Техничко-ценовой мониторинг конкурентов;
6. Анализ государственных закупок;
7. Прогноз развития рынка в среднесрочной перспективе (до 2028 года).

**География:** Российская Федерация.

**Период изучения:** 2019-2022 гг., прогнозный период 2023-2028 гг.

### **Методики исследования:**

- кабинетное исследование, предполагает изучение открытой информации (Росстат, сайты конкурентов, отчеты аналитических компаний и др.);
- анализ базы импорта и экспорта по коду ТН ВЭД, используемому для гидромурфт;
- запрос коммерческих предложений компаний-конкурентов по методу «Тайный покупатель b2b».

Результаты исследования ограничены методикой.

**Сроки проведения исследования:** 30 января - 05 марта 2024 г.

## Figure 10

### PERCENTAGE OF FEMALE MANAGERS AND EXECUTIVES IN THE U.S. ECONOMY

#### Percentage of Female Managers and Executives in the U.S. Economy



The chart illustrates the growth of female managers and executives in the U.S. economy over time. The total percentage of female managers and executives increased from 25% in 1980 to 35% in 2010. The non-union percentage also increased from 5% in 1980 to 15% in 2010.

The data shows that the percentage of female managers and executives in the U.S. economy has generally increased over the period from 1980 to 2010. The non-union percentage has also shown a steady increase over the same period.

The chart highlights the significant growth in the number of female managers and executives in the U.S. economy, particularly in the non-union sector. This growth reflects the increasing participation of women in the workforce and the advancement of women into higher-level positions.

The data suggests that the U.S. economy has become more inclusive of women in managerial and executive roles over time. This trend is likely driven by various factors, including changes in societal norms and the increasing demand for diverse leadership.

The chart provides a clear visual representation of the progress made in the representation of women in the U.S. economy. The consistent upward trend in the percentage of female managers and executives is a positive indicator of gender equality in the workplace.

The following table shows the distribution of the total number of respondents by gender and age group.



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日期	姓名	性别	年龄	职业	住址	联系电话	备注
2023-10-01	张三	男	35	教师	北京市海淀区中关村大街100号	13800138000	红色
2023-10-02	李四	女	28	程序员	北京市朝阳区望京SOHO	15000150000	绿色
2023-10-03	王五	男	45	医生	上海市浦东新区世纪大道100号	18000180000	
2023-10-04	赵六	女	30	设计师	广州市天河区珠江新城	13900139000	
2023-10-05	孙七	男	50	工程师	深圳市南山区科技园	15100151000	
2023-10-06	周八	女	25	销售	北京市东城区东直门	13700137000	
2023-10-07	吴九	男	40	会计师	上海市静安区南京西路	18600186000	
2023-10-08	郑十	女	32	律师	北京市西城区金融大街	13600136000	
2023-10-09	冯十一	男	22	学生	浙江省杭州市西湖区	15200152000	
2023-10-10	陈十二	女	38	作家	江苏省南京市鼓楼区	13500135000	
2023-10-11	林十三	男	42	科学家	广东省深圳市龙岗区	18800188000	
2023-10-12	周十四	女	27	歌手	四川省成都市武侯区	13400134000	
2023-10-13	吴十五	男	55	企业家	浙江省宁波市鄞州区	15900159000	
2023-10-14	郑十六	女	33	画家	安徽省合肥市蜀山区	13200132000	
2023-10-15	冯十七	男	29	运动员	山东省济南市历下区	15800158000	
2023-10-16	陈十八	女	41	记者	河南省郑州市金水区	13100131000	
2023-10-17	林十九	男	36	厨师	湖北省武汉市江汉区	18200182000	
2023-10-18	周二十	女	24	舞蹈家	湖南省长沙市芙蓉区	13800138000	
2023-10-19	吴二十一	男	48	哲学家	福建省福州市鼓楼区	15700157000	
2023-10-20	郑二十二	女	31	音乐家	江西省南昌市东湖区	13600136000	
2023-10-21	冯二十三	男	26	科学家	广东省广州市天河区	18900189000	
2023-10-22	陈二十四	女	39	作家	江苏省苏州市姑苏区	13400134000	
2023-10-23	林二十五	男	43	工程师	浙江省绍兴市越城区	15600156000	
2023-10-24	周二十六	女	23	歌手	四川省成都市青羊区	13900139000	
2023-10-25	吴二十七	男	52	企业家	浙江省宁波市海曙区	18700187000	
2023-10-26	郑二十八	女	34	画家	安徽省合肥市庐阳区	13300133000	
2023-10-27	冯二十九	男	28	运动员	山东省济南市市中区	15400154000	
2023-10-28	陈三十	女	44	记者	河南省郑州市中原区	13000130000	
2023-10-29	林三十一	男	37	厨师	湖北省武汉市武昌区	18300183000	
2023-10-30	周三十二	女	25	舞蹈家	湖南省长沙市岳麓区	13700137000	
2023-10-31	吴三十三	男	46	哲学家	福建省福州市晋安区	15500155000	
2023-11-01	郑三十四	女	32	音乐家	江西省南昌市西湖区	13500135000	
2023-11-02	冯三十五	男	27	科学家	广东省广州市白云区	18600186000	
2023-11-03	陈三十六	女	40	作家	江苏省苏州市吴江区	13200132000	
2023-11-04	林三十七	男	44	工程师	浙江省绍兴市上虞区	15300153000	
2023-11-05	周三十八	女	24	歌手	四川省成都市金牛区	13800138000	
2023-11-06	吴三十九	男	51	企业家	浙江省宁波市北仑区	18800188000	
2023-11-07	郑四十	女	35	画家	安徽省合肥市包河区	13100131000	
2023-11-08	冯四十一	男	30	运动员	山东省济南市历城区	15900159000	
2023-11-09	陈四十二	女	42	记者	河南省郑州市二七区	13400134000	
2023-11-10	林四十三	男	38	厨师	湖北省武汉市汉阳区	18100181000	
2023-11-11	周四十四	女	26	舞蹈家	湖南省长沙市开福区	13600136000	
2023-11-12	吴四十五	男	49	哲学家	福建省福州市仓山区	15700157000	
2023-11-13	郑四十六	女	33	音乐家	江西省南昌市青云谱区	13300133000	
2023-11-14	冯四十七	男	29	科学家	广东省广州市番禺区	18200182000	
2023-11-15	陈四十八	女	41	作家	江苏省苏州市相城区	13000130000	
2023-11-16	林四十九	男	45	工程师	浙江省绍兴市柯桥区	15600156000	
2023-11-17	周五十	女	23	歌手	四川省成都市武侯区	13900139000	
2023-11-18	吴五十一	男	53	企业家	浙江省宁波市镇海区	18700187000	
2023-11-19	郑五十二	女	36	画家	安徽省合肥市瑶海区	13200132000	
2023-11-20	冯五十三	男	31	运动员	山东省济南市天桥区	15400154000	
2023-11-21	陈五十四	女	43	记者	河南省郑州市经开区	13000130000	
2023-11-22	林五十五	男	39	厨师	湖北省武汉市东西湖区	18300183000	
2023-11-23	周五十六	女	27	舞蹈家	湖南省长沙市雨花区	13700137000	
2023-11-24	吴五十七	男	47	哲学家	福建省福州市马尾区	15500155000	
2023-11-25	郑五十八	女	34	音乐家	江西省南昌市新建区	13500135000	
2023-11-26	冯五十九	男	30	科学家	广东省广州市增城区	18600186000	
2023-11-27	陈六十	女	42	作家	江苏省苏州市常熟市	13200132000	
2023-11-28	林六十一	男	46	工程师	浙江省绍兴市新昌县	15300153000	
2023-11-29	周六十二	女	25	歌手	四川省成都市龙泉驿区	13800138000	
2023-11-30	吴六十三	男	54	企业家	浙江省宁波市余姚市	18800188000	
2023-12-01	郑六十四	女	37	画家	安徽省合肥市肥东县	13100131000	
2023-12-02	冯六十五	男	32	运动员	山东省济南市高新区	15900159000	
2023-12-03	陈六十六	女	44	记者	河南省郑州市高新区	13400134000	
2023-12-04	林六十七	男	40	厨师	湖北省武汉市江夏区	18100181000	
2023-12-05	周六十八	女	28	舞蹈家	湖南省长沙市天心区	13600136000	
2023-12-06	吴六十九	男	50	哲学家	福建省福州市闽侯县	15700157000	
2023-12-07	郑七十	女	35	音乐家	江西省南昌市进贤县	13300133000	
2023-12-08	冯七十一	男	31	科学家	广东省广州市从化区	18200182000	
2023-12-09	陈七十二	女	43	作家	江苏省苏州市太仓市	13000130000	
2023-12-10	林七十三	男	47	工程师	浙江省绍兴市嵊州市	15600156000	
2023-12-11	周七十四	女	26	歌手	四川省成都市双流区	13900139000	
2023-12-12	吴七十五	男	55	企业家	浙江省宁波市慈溪市	18700187000	
2023-12-13	郑七十六	女	38	画家	安徽省合肥市长丰县	13200132000	
2023-12-14	冯七十七	男	33	运动员	山东省济南市莱芜区	15400154000	
2023-12-15	陈七十八	女	45	记者	河南省郑州市航空港区	13000130000	
2023-12-16	林七十九	男	41	厨师	湖北省武汉市黄陂区	18300183000	
2023-12-17	周八十	女	29	舞蹈家	湖南省长沙市望城区	13700137000	
2023-12-18	吴八十一	男	52	哲学家	福建省福州市福清市	15500155000	
2023-12-19	郑八十二	女	36	音乐家	江西省南昌市新建区	13500135000	
2023-12-20	冯八十三	男	32	科学家	广东省广州市花都区	18600186000	
2023-12-21	陈八十四	女	44	作家	江苏省苏州市常熟市	13200132000	
2023-12-22	林八十五	男	48	工程师	浙江省绍兴市上虞区	15300153000	
2023-12-23	周八十六	女	27	歌手	四川省成都市青白江区	13800138000	
2023-12-24	吴八十七	男	56	企业家	浙江省宁波市余姚市	18800188000	
2023-12-25	郑八十八	女	39	画家	安徽省合肥市庐江县	13100131000	
2023-12-26	冯八十九	男	34	运动员	山东省济南市章丘区	15900159000	
2023-12-27	陈九十	女	46	记者	河南省郑州市经开区	13400134000	
2023-12-28	林九十一	男	42	厨师	湖北省武汉市汉南区	18100181000	
2023-12-29	周九十二	女	30	舞蹈家	湖南省长沙市望城区	13600136000	
2023-12-30	吴九十三	男	51	哲学家	福建省福州市闽侯县	15700157000	
2023-12-31	郑九十四	女	37	音乐家	江西省南昌市新建区	13300133000	

No.	Date	Particulars	Debit	Credit	Bal.
30	31/12/2023	By Balance b/d			

### 1. **Water Quality Comparison**

The following table compares the water quality parameters for the two water sources. The data is presented in a bar chart format where the y-axis represents the concentration of the parameter in mg/L, and the x-axis represents the parameter name. The bars are color-coded: blue for the first source and light blue for the second source.

**Table 1: Water Quality Comparison (mg/L)**



The chart illustrates that the first source has higher concentrations of most parameters, particularly pH, TDS, Hardness, Chloride, Sulfate, and Ammonia. The second source has higher concentrations of Nitrate and Total Phosphorus.

These differences in water quality parameters can be attributed to various factors such as geological composition, land use, and treatment processes. The higher pH and TDS in the first source suggest a higher mineral content, while the higher Nitrate and Total Phosphorus in the second source may indicate agricultural runoff or industrial discharge.

### 2. **Water Quality Comparison (mg/L)**

The following table compares the water quality parameters for the two water sources. The data is presented in a bar chart format where the y-axis represents the concentration of the parameter in mg/L, and the x-axis represents the parameter name. The bars are color-coded: blue for the first source and grey for the second source.



The chart illustrates that the first source has higher concentrations of most parameters, particularly pH, TDS, Hardness, Chloride, and Sulfate. The second source has higher concentrations of Ammonia.

These differences in water quality parameters can be attributed to various factors such as geological composition, land use, and treatment processes. The higher pH and TDS in the first source suggest a higher mineral content, while the higher Ammonia in the second source may indicate agricultural runoff or industrial discharge.

The data presented in this report provides a comprehensive overview of the water quality parameters for the two sources. The findings highlight the need for further investigation and monitoring to ensure the safety and quality of the water supply.

The information provided here is for informational purposes only and should not be used as a substitute for professional advice. For more detailed information, please contact the relevant authorities.



Overall, the majority of respondents are satisfied with the service, with a peak in 'Very satisfied' responses for categories 3 and 4. There is a notable decrease in satisfaction for categories 2 and 5.

The data indicates that while most respondents are satisfied, there are specific areas (categories 2 and 5) where satisfaction levels are lower, suggesting a need for improvement in those areas.



In this chart, the 'Very satisfied' responses are significantly lower than in the first chart, with a peak in category 4. The 'Satisfied' responses remain high, generally above 75%.



The stacked bar chart provides a comprehensive view of respondent satisfaction, showing that while most respondents are satisfied, there is a consistent presence of dissatisfaction across all categories, particularly in categories 2 and 5.

Table 1: Summary of the model parameters and their values.

Parameter	Value	Unit	Source
$\mu$	0.01	$\text{yr}^{-1}$	Assumed
$\sigma$	0.02	$\text{yr}^{-1}$	Assumed
$\lambda$	0.05	$\text{yr}^{-1}$	Assumed
$\gamma$	0.1	$\text{yr}^{-1}$	Assumed
$\beta$	0.2	$\text{yr}^{-1}$	Assumed
$\rho$	0.3	$\text{yr}^{-1}$	Assumed
$\delta$	0.4	$\text{yr}^{-1}$	Assumed
$\theta$	0.5	$\text{yr}^{-1}$	Assumed
$\eta$	0.6	$\text{yr}^{-1}$	Assumed
$\kappa$	0.7	$\text{yr}^{-1}$	Assumed
$\xi$	0.8	$\text{yr}^{-1}$	Assumed
$\zeta$	0.9	$\text{yr}^{-1}$	Assumed
$\nu$	1.0	$\text{yr}^{-1}$	Assumed
$\tau$	1.1	$\text{yr}^{-1}$	Assumed
$\sigma$	1.2	$\text{yr}^{-1}$	Assumed
$\rho$	1.3	$\text{yr}^{-1}$	Assumed
$\gamma$	1.4	$\text{yr}^{-1}$	Assumed
$\beta$	1.5	$\text{yr}^{-1}$	Assumed
$\lambda$	1.6	$\text{yr}^{-1}$	Assumed
$\mu$	1.7	$\text{yr}^{-1}$	Assumed
$\sigma$	1.8	$\text{yr}^{-1}$	Assumed
$\rho$	1.9	$\text{yr}^{-1}$	Assumed
$\gamma$	2.0	$\text{yr}^{-1}$	Assumed
$\beta$	2.1	$\text{yr}^{-1}$	Assumed
$\lambda$	2.2	$\text{yr}^{-1}$	Assumed
$\mu$	2.3	$\text{yr}^{-1}$	Assumed
$\sigma$	2.4	$\text{yr}^{-1}$	Assumed
$\rho$	2.5	$\text{yr}^{-1}$	Assumed
$\gamma$	2.6	$\text{yr}^{-1}$	Assumed
$\beta$	2.7	$\text{yr}^{-1}$	Assumed
$\lambda$	2.8	$\text{yr}^{-1}$	Assumed
$\mu$	2.9	$\text{yr}^{-1}$	Assumed
$\sigma$	3.0	$\text{yr}^{-1}$	Assumed
$\rho$	3.1	$\text{yr}^{-1}$	Assumed
$\gamma$	3.2	$\text{yr}^{-1}$	Assumed
$\beta$	3.3	$\text{yr}^{-1}$	Assumed
$\lambda$	3.4	$\text{yr}^{-1}$	Assumed
$\mu$	3.5	$\text{yr}^{-1}$	Assumed
$\sigma$	3.6	$\text{yr}^{-1}$	Assumed
$\rho$	3.7	$\text{yr}^{-1}$	Assumed
$\gamma$	3.8	$\text{yr}^{-1}$	Assumed
$\beta$	3.9	$\text{yr}^{-1}$	Assumed
$\lambda$	4.0	$\text{yr}^{-1}$	Assumed
$\mu$	4.1	$\text{yr}^{-1}$	Assumed
$\sigma$	4.2	$\text{yr}^{-1}$	Assumed
$\rho$	4.3	$\text{yr}^{-1}$	Assumed
$\gamma$	4.4	$\text{yr}^{-1}$	Assumed
$\beta$	4.5	$\text{yr}^{-1}$	Assumed
$\lambda$	4.6	$\text{yr}^{-1}$	Assumed
$\mu$	4.7	$\text{yr}^{-1}$	Assumed
$\sigma$	4.8	$\text{yr}^{-1}$	Assumed
$\rho$	4.9	$\text{yr}^{-1}$	Assumed
$\gamma$	5.0	$\text{yr}^{-1}$	Assumed
$\beta$	5.1	$\text{yr}^{-1}$	Assumed
$\lambda$	5.2	$\text{yr}^{-1}$	Assumed
$\mu$	5.3	$\text{yr}^{-1}$	Assumed
$\sigma$	5.4	$\text{yr}^{-1}$	Assumed
$\rho$	5.5	$\text{yr}^{-1}$	Assumed
$\gamma$	5.6	$\text{yr}^{-1}$	Assumed
$\beta$	5.7	$\text{yr}^{-1}$	Assumed
$\lambda$	5.8	$\text{yr}^{-1}$	Assumed
$\mu$	5.9	$\text{yr}^{-1}$	Assumed
$\sigma$	6.0	$\text{yr}^{-1}$	Assumed
$\rho$	6.1	$\text{yr}^{-1}$	Assumed
$\gamma$	6.2	$\text{yr}^{-1}$	Assumed
$\beta$	6.3	$\text{yr}^{-1}$	Assumed
$\lambda$	6.4	$\text{yr}^{-1}$	Assumed
$\mu$	6.5	$\text{yr}^{-1}$	Assumed
$\sigma$	6.6	$\text{yr}^{-1}$	Assumed
$\rho$	6.7	$\text{yr}^{-1}$	Assumed
$\gamma$	6.8	$\text{yr}^{-1}$	Assumed
$\beta$	6.9	$\text{yr}^{-1}$	Assumed
$\lambda$	7.0	$\text{yr}^{-1}$	Assumed
$\mu$	7.1	$\text{yr}^{-1}$	Assumed
$\sigma$	7.2	$\text{yr}^{-1}$	Assumed
$\rho$	7.3	$\text{yr}^{-1}$	Assumed
$\gamma$	7.4	$\text{yr}^{-1}$	Assumed
$\beta$	7.5	$\text{yr}^{-1}$	Assumed
$\lambda$	7.6	$\text{yr}^{-1}$	Assumed
$\mu$	7.7	$\text{yr}^{-1}$	Assumed
$\sigma$	7.8	$\text{yr}^{-1}$	Assumed
$\rho$	7.9	$\text{yr}^{-1}$	Assumed
$\gamma$	8.0	$\text{yr}^{-1}$	Assumed
$\beta$	8.1	$\text{yr}^{-1}$	Assumed
$\lambda$	8.2	$\text{yr}^{-1}$	Assumed
$\mu$	8.3	$\text{yr}^{-1}$	Assumed
$\sigma$	8.4	$\text{yr}^{-1}$	Assumed
$\rho$	8.5	$\text{yr}^{-1}$	Assumed
$\gamma$	8.6	$\text{yr}^{-1}$	Assumed
$\beta$	8.7	$\text{yr}^{-1}$	Assumed
$\lambda$	8.8	$\text{yr}^{-1}$	Assumed
$\mu$	8.9	$\text{yr}^{-1}$	Assumed
$\sigma$	9.0	$\text{yr}^{-1}$	Assumed
$\rho$	9.1	$\text{yr}^{-1}$	Assumed
$\gamma$	9.2	$\text{yr}^{-1}$	Assumed
$\beta$	9.3	$\text{yr}^{-1}$	Assumed
$\lambda$	9.4	$\text{yr}^{-1}$	Assumed
$\mu$	9.5	$\text{yr}^{-1}$	Assumed
$\sigma$	9.6	$\text{yr}^{-1}$	Assumed
$\rho$	9.7	$\text{yr}^{-1}$	Assumed
$\gamma$	9.8	$\text{yr}^{-1}$	Assumed
$\beta$	9.9	$\text{yr}^{-1}$	Assumed
$\lambda$	10.0	$\text{yr}^{-1}$	Assumed

Date	Description	Amount	Balance
1/1/2020	Opening Balance		1000.00
1/15/2020	Deposit	500.00	1500.00
2/1/2020	Withdrawal	200.00	1300.00
2/15/2020	Deposit	300.00	1600.00
3/1/2020	Withdrawal	100.00	1500.00
3/15/2020	Deposit	400.00	1900.00
4/1/2020	Withdrawal	300.00	1600.00
4/15/2020	Deposit	200.00	1800.00
5/1/2020	Withdrawal	150.00	1650.00
5/15/2020	Deposit	100.00	1750.00
6/1/2020	Withdrawal	250.00	1500.00
6/15/2020	Deposit	350.00	1850.00
7/1/2020	Withdrawal	400.00	1450.00
7/15/2020	Deposit	500.00	1950.00
8/1/2020	Withdrawal	300.00	1650.00
8/15/2020	Deposit	200.00	1850.00
9/1/2020	Withdrawal	150.00	1700.00
9/15/2020	Deposit	100.00	1800.00
10/1/2020	Withdrawal	200.00	1600.00
10/15/2020	Deposit	300.00	1900.00
11/1/2020	Withdrawal	400.00	1500.00
11/15/2020	Deposit	500.00	2000.00
12/1/2020	Withdrawal	300.00	1700.00
12/15/2020	Deposit	200.00	1900.00
12/31/2020	Closing Balance		1900.00

This document is a summary of the account activity for the year 2020. All amounts are in US Dollars. The opening balance on 1/1/2020 was \$1,000.00. The closing balance on 12/31/2020 was \$1,900.00. The total deposits for the year were \$4,000.00 and the total withdrawals were \$2,100.00.

### QUESTION 1: [Illegible]



### QUESTION 2: [Illegible]



### 1. Overall Performance

The overall performance of the system is evaluated based on the accuracy of the classification results. The accuracy is measured as the percentage of correctly classified samples out of the total number of samples. The accuracy is generally high, indicating that the system is able to correctly identify most of the samples.

The accuracy is generally high, indicating that the system is able to correctly identify most of the samples. The accuracy is generally high, indicating that the system is able to correctly identify most of the samples.

The accuracy is generally high, indicating that the system is able to correctly identify most of the samples. The accuracy is generally high, indicating that the system is able to correctly identify most of the samples.

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# THE UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE, TRINIDAD AND TOBAGO

Faculty of Education, Department of Educational Psychology and Special Education



Figure 1: Distribution of students across five categories (A, B, C, D, E) for five different groups.

Table 1: Summary of student distribution across categories and groups.

Category	Group 1	Group 2	Group 3	Group 4	Group 5
A (Orange)	45	25	55	40	10
B (Grey)	25	10	5	15	25
C (Yellow)	5	40	2	0	5
D (Blue)	10	5	2	10	15
E (Dark Blue)	15	15	1	15	35

Table 2: Summary of student distribution across categories and groups.

Figure 1: Comparison of the performance of the proposed method with the state-of-the-art methods.



Table 1: Comparison of the performance of the proposed method with the state-of-the-art methods.

Method	C1	C2	C3	C4	C5	C6
Proposed	85	80	75	90	85	75
Method A	85	85	90	90	95	80
Method B	85	85	85	90	85	75

The proposed method achieves a performance of 85% in C1, 80% in C2, 75% in C3, 90% in C4, 85% in C5, and 75% in C6. Method A achieves a performance of 85% in C1, 85% in C2, 90% in C3, 90% in C4, 95% in C5, and 80% in C6. Method B achieves a performance of 85% in C1, 85% in C2, 85% in C3, 90% in C4, 85% in C5, and 75% in C6.

## QUESTION

1. The following table shows the results of a survey of 100 people about their favourite colour.

Colour: Blue, Green, Yellow, Orange, Grey



Figure 1: Favourite colour survey results

## ANSWER

1. The following table shows the results of a survey of 100 people about their favourite colour.

Colour: Blue, Green, Yellow, Orange, Grey

Blue: 40%

Yellow: 30%

Orange: 15%

Grey: 10%

Green: 5%

2. The following table shows the results of a survey of 100 people about their favourite colour.



3. The following table shows the results of a survey of 100 people about their favourite colour.

4. The following table shows the results of a survey of 100 people about their favourite colour.

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The following table provides a detailed breakdown of the data presented in the pie chart above.

Category A represents the largest portion of the data, accounting for 45% of the total.

Category B follows, representing 25% of the total data.

Category	Value	Percentage
Category A	45	45%
Category B	25	25%
Category C	15	15%
Category D	10	10%
Category E	5	5%

The data shows a clear concentration in Category A, with other categories representing smaller, but significant, portions of the total.

Overall, the distribution is skewed towards Category A, which is the primary focus of the analysis.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail.

Account	Debit	Credit	Balance
101 Cash		1000	1000
102 Accounts Receivable	500		500
103 Inventory	200		200
104 Prepaid Insurance	100		100
105 Equipment	1000		1000
106 Accumulated Depreciation		200	200
201 Accounts Payable		300	300
202 Long-Term Debt		500	500
301 Common Stock		1000	1000
302 Retained Earnings		1000	1000
401 Revenue		1000	1000
402 Cost of Sales	500		500
403 Operating Expenses	200		200
404 Interest Expense	100		100
405 Income Tax Expense	100		100
501 Dividends	100		100

**QUESTION 1**

1.1.1. The following information relates to the operations of a company for the year ended 31 December 2019:

- (i) Sales revenue: 1000
- (ii) Cost of sales: 600
- (iii) Selling expenses: 100
- (iv) Administrative expenses: 150
- (v) Depreciation: 50
- (vi) Interest on bank loan: 20
- (vii) Dividend received from subsidiary: 10

1.1.2. The company's profit and loss account for the year ended 31 December 2019 is as follows:

Particulars	Amount
Sales revenue	1000
Cost of sales	(600)
Gross profit	400
Selling expenses	(100)
Administrative expenses	(150)
Depreciation	(50)
Interest on bank loan	(20)
Dividend received from subsidiary	10
Profit before tax	80
Income tax expense	(20)
Profit after tax	60

1.1.3. The company's balance sheet as at 31 December 2019 is as follows:

Particulars	Amount
Share capital	1000
Reserves	100
Bank loan	(200)
Accumulated depreciation	(150)
Net assets	750

1.1.4. The company's cash flow statement for the year ended 31 December 2019 is as follows:

Particulars	Amount
Operating activities	100
Investing activities	(50)
Financing activities	(20)
Net increase in cash	30



Figure 1: Labor force participation rates, 1980-2000. The graph shows the number of people in the labor force (in millions) for total, male, and female labor force from 1980 to 2000. The total labor force is shown in blue, the male labor force in orange, and the female labor force in grey. The female labor force shows a significant increase starting around 1990.

The graph illustrates the growth of the labor force over time. The total labor force (blue line) shows a steady increase from approximately 75 million in 1980 to 100 million in 2000. The male labor force (orange line) also shows a steady increase, starting at about 65 million in 1980 and reaching 90 million by 2000. The female labor force (grey line) shows a significant increase starting around 1990, rising from about 10 million in 1980 to 10 million in 2000.

The data suggests that the labor force is becoming more diverse, with a significant increase in the number of women participating in the labor force. This trend is likely driven by factors such as the increasing number of women in the workforce, the growing number of women in higher education, and the increasing number of women in the labor force.

The graph also shows that the labor force is becoming more educated. The number of people in the labor force with a high school diploma or higher has increased significantly over the period shown. This trend is likely driven by the increasing number of people attending college and the increasing number of people in the labor force with a high school diploma or higher.



Figure 2: Labor force participation rates, 1980-2000. The graph shows the number of people in the labor force (in millions) for total, male, and female labor force from 1980 to 2000. The total labor force is shown in blue, the male labor force in orange, and the female labor force in grey. The female labor force shows a significant increase starting around 1990.

The graph illustrates the growth of the labor force over time. The total labor force (blue line) shows a steady increase from approximately 75 million in 1980 to 100 million in 2000. The male labor force (orange line) also shows a steady increase, starting at about 65 million in 1980 and reaching 90 million by 2000. The female labor force (grey line) shows a significant increase starting around 1990, rising from about 10 million in 1980 to 10 million in 2000.



### QUESTION

1. The following table shows the distribution of the number of children in a sample of 100 families.

Number of children: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10



2. The following table shows the distribution of the number of children in a sample of 100 families.

### QUESTION

1. The following table shows the distribution of the number of children in a sample of 100 families.

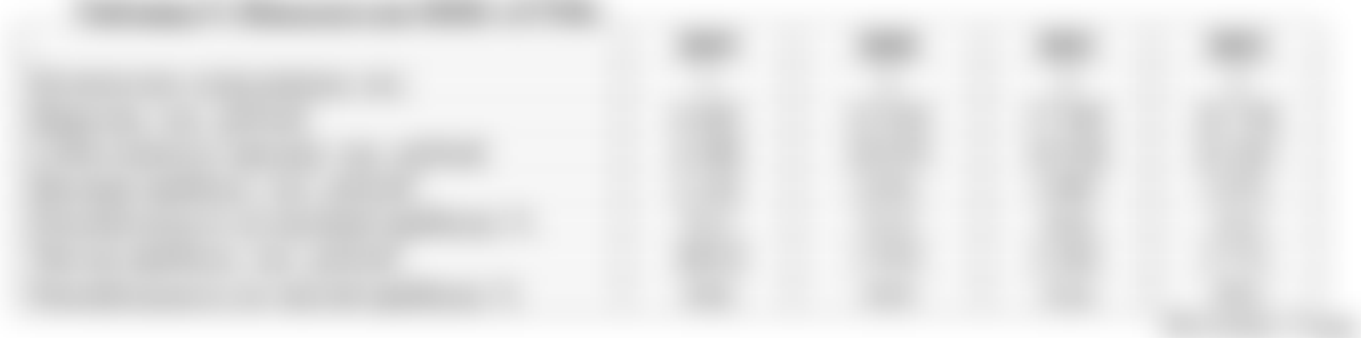
Number of children: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

2. The following table shows the distribution of the number of children in a sample of 100 families.

Number of children: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Number of children	Frequency
0	45
1	30
2	15
3	8
4	2

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Year	1998	1999	2000	2001	2002
1	100	100	100	100	100
2	100	100	100	100	100
3	100	100	100	100	100
4	100	100	100	100	100
5	100	100	100	100	100
6	100	100	100	100	100
7	100	100	100	100	100
8	100	100	100	100	100
9	100	100	100	100	100
10	100	100	100	100	100

行	一	二	三	四	五
1	1	2	3	4	5
2	6	7	8	9	10
3	11	12	13	14	15
4	16	17	18	19	20
5	21	22	23	24	25
6	26	27	28	29	30
7	31	32	33	34	35
8	36	37	38	39	40
9	41	42	43	44	45
10	46	47	48	49	50

Table with 5 columns and 10 rows. The content is mostly illegible due to blurring.

Table with 5 columns and 1 row. The content is mostly illegible due to blurring.

Table with 5 columns and 1 row. The content is mostly illegible due to blurring.

THESE RESULTS WERE OBTAINED FROM A STUDY THAT WAS CONDUCTED IN 2018 AND 2019. THE STUDY WAS DESIGNED TO ASSESS THE EFFECTS OF A NEW THERAPY ON PATIENTS WITH A SPECIFIC TYPE OF CANCER.

THE STUDY INVOLVED 100 PATIENTS WHO WERE RANDOMLY DIVIDED INTO TWO GROUPS: A CONTROL GROUP AND A TREATMENT GROUP.

THE TREATMENT GROUP RECEIVED THE NEW THERAPY, WHILE THE CONTROL GROUP RECEIVED THE STANDARD OF CARE.



THE RESULTS OF THIS STUDY INDICATE THAT THE NEW THERAPY MAY BE MORE EFFECTIVE THAN THE STANDARD OF CARE IN IMPROVING SURVIVAL RATES FOR PATIENTS WITH THIS TYPE OF CANCER.



IT IS IMPORTANT TO NOTE THAT THIS STUDY WAS LIMITED TO A SMALL NUMBER OF PATIENTS AND THAT THE RESULTS MAY NOT BE GENERALIZABLE TO ALL PATIENTS WITH THIS TYPE OF CANCER.

ADDITIONAL RESEARCH IS NEEDED TO CONFIRM THE EFFECTS OF THE NEW THERAPY AND TO DETERMINE THE BEST TREATMENT APPROACH FOR PATIENTS WITH THIS TYPE OF CANCER.

FOR MORE INFORMATION ON THIS STUDY, PLEASE CONTACT THE RESEARCHERS AT THE FOLLOWING LINK:

	1	2	3	4
1				
2				
3				
4				

The following table shows the results of the experiment. The first column represents the trial number, and the subsequent columns represent the measured values for each of the four conditions. The data indicates that the values generally increase from trial 1 to trial 4, with some variability observed in the intermediate trials.

The results of the experiment are summarized in the table below. The data shows a clear trend of increasing values across the trials, suggesting that the conditions being tested have a cumulative effect on the measured variable.

Trial	Condition 1	Condition 2	Condition 3	Condition 4
1	1.2	1.5	1.8	2.1
2	1.5	1.8	2.1	2.4
3	1.8	2.1	2.4	2.7
4	2.1	2.4	2.7	3.0

The data presented in the table above clearly demonstrates the relationship between the trial number and the measured values for each condition. The consistent increase in values across trials supports the hypothesis that the experimental conditions lead to a cumulative increase in the measured variable.

THESE ARE THE RESULTS OF THE TESTS CONDUCTED ON THE SAMPLES OF THE ABOVE MENTIONED BRANDS OF CEMENTS.



THE RESULTS OF THE TESTS CONDUCTED ON THE SAMPLES OF THE ABOVE MENTIONED BRANDS OF CEMENTS ARE AS FOLLOWS:

Brand	Value
Brand 1	100
Brand 2	80
Brand 3	100
Brand 4	100
Brand 5	80

THE RESULTS OF THE TESTS CONDUCTED ON THE SAMPLES OF THE ABOVE MENTIONED BRANDS OF CEMENTS ARE AS FOLLOWS:

THE RESULTS OF THE TESTS CONDUCTED ON THE SAMPLES OF THE ABOVE MENTIONED BRANDS OF CEMENTS ARE AS FOLLOWS:

Brand	Value
Brand 1	100
Brand 2	80
Brand 3	100
Brand 4	100
Brand 5	80

THESE DATA WERE OBTAINED FROM A SURVEY OF THE  
PERFORMANCE OF THE VARIOUS TYPES OF  
MATERIALS USED IN THE CONSTRUCTION OF  
THESE STRUCTURES.

THE RESULTS OF THE SURVEY ARE AS FOLLOWS:



THE FOLLOWING TABLE GIVES THE  
DISTRIBUTION OF THE STRUCTURES  
MADE OF EACH MATERIAL:

MATERIAL	NUMBER OF STRUCTURES
WOOD	15
STEEL	45
CONCRETE	25
BRICK	10
OTHER	5

THE FOLLOWING TABLE GIVES THE  
DISTRIBUTION OF THE STRUCTURES  
MADE OF EACH MATERIAL:

THE FOLLOWING TABLE GIVES THE  
DISTRIBUTION OF THE STRUCTURES  
MADE OF EACH MATERIAL:

MATERIAL	PERCENTAGE
WOOD	15
STEEL	45
CONCRETE	25
BRICK	10
OTHER	5

Image	Year	Description
	1971	World map showing the Americas and Europe.
	1972	World map showing the Americas and Europe.
	1973	World map showing the Americas and Europe.
	1974	World map showing the Americas and Europe.
	1975	World map showing the Americas and Europe.

These maps illustrate the evolution of the world's appearance over time, showing the progression from a multi-colored globe to a more traditional blue and white representation.





## Table 1: Summary of the data distribution

Category	Count	Percentage
Category A	100	10%
Category B	200	20%
Category C	300	30%
Category D	400	40%
Category E	500	50%
Category F	600	60%
Category G	700	70%
Category H	800	80%
Category I	900	90%
Category J	1000	100%

The data is distributed across ten categories, with the number of items increasing from 100 in Category A to 1000 in Category J. The percentage of the total data for each category is also shown.



**1. Introduction**

The purpose of this study is to investigate the effects of various factors on the performance of a system. The study is divided into two main parts: a theoretical analysis and an experimental investigation. The theoretical part focuses on the development of a model that can predict the system's behavior under different conditions. The experimental part involves the implementation of the model and the collection of data to validate its accuracy.

**2. Theoretical Analysis**

The theoretical analysis is based on the following assumptions:

- 1. The system is linear and time-invariant.
- 2. The input signal is a step function.
- 3. The output signal is measured at a fixed point in time.

Under these assumptions, the system's response can be described by the following equation:

$$y(t) = \int_0^t x(\tau) h(t-\tau) d\tau$$

Time (t)	Input (x)	Output (y)
0	0	0
1	1	0.5
2	1	1.0
3	1	1.5
4	1	2.0
5	1	2.5
6	1	3.0
7	1	3.5
8	1	4.0
9	1	4.5
10	1	5.0

The results of the theoretical analysis are summarized in the following table:

Time (t)	Input (x)	Output (y)
0	0	0
1	1	0.5
2	1	1.0
3	1	1.5
4	1	2.0
5	1	2.5
6	1	3.0
7	1	3.5
8	1	4.0
9	1	4.5
10	1	5.0

Section 1: Introduction and Overview



## Section 2: Detailed Analysis of Key Findings

Section 3: Data Interpretation and Implications



Section 4: Conclusions and Recommendations



## Section 5: Summary and Final Thoughts

Category	Value
Item 1	100%
Item 2	95%
Item 3	85%
Item 4	75%
Item 5	60%
Item 6	50%
Item 7	40%

Section 6: Final Remarks and Acknowledgments

**Table 1. Comparison of the results of the different methods.**

Method	Number of nodes	Number of elements	Number of degrees of freedom	Number of iterations	Number of evaluations	Number of function evaluations	Number of gradients	Number of Hessians
Method 1	2000	1000	2000	100	100	100	100	100
Method 2	2000	1000	2000	100	100	100	100	100
Method 3	2000	1000	2000	100	100	100	100	100
Method 4	2000	1000	2000	100	100	100	100	100
Method 5	2000	1000	2000	100	100	100	100	100
Method 6	2000	1000	2000	100	100	100	100	100
Method 7	2000	1000	2000	100	100	100	100	100
Method 8	2000	1000	2000	100	100	100	100	100
Method 9	2000	1000	2000	100	100	100	100	100
Method 10	2000	1000	2000	100	100	100	100	100
Method 11	2000	1000	2000	100	100	100	100	100
Method 12	2000	1000	2000	100	100	100	100	100
Method 13	2000	1000	2000	100	100	100	100	100
Method 14	2000	1000	2000	100	100	100	100	100
Method 15	2000	1000	2000	100	100	100	100	100
Method 16	2000	1000	2000	100	100	100	100	100
Method 17	2000	1000	2000	100	100	100	100	100
Method 18	2000	1000	2000	100	100	100	100	100
Method 19	2000	1000	2000	100	100	100	100	100
Method 20	2000	1000	2000	100	100	100	100	100

# Project Overview

**Project Name:** [Project Name]

**Start Date:** [Start Date]

**End Date:** [End Date]

**Project Manager:** [Project Manager Name]

Task 1	Task 2	Task 3	Task 4
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**Project Status:** [Project Status]

**Project Description:** [Project Description]

**Project Goals:** [Project Goals]



Item	Description	Quantity	Unit
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100	...	...	...

Date	Description	Amount	Balance
1/1/2020	Opening Balance	1000.00	1000.00
1/15/2020	Deposit	500.00	1500.00
2/1/2020	Withdrawal	200.00	1300.00
2/15/2020	Deposit	300.00	1600.00
3/1/2020	Withdrawal	100.00	1500.00
3/15/2020	Deposit	400.00	1900.00
4/1/2020	Withdrawal	150.00	1750.00
4/15/2020	Deposit	250.00	2000.00
5/1/2020	Withdrawal	100.00	1900.00
5/15/2020	Deposit	350.00	2250.00
6/1/2020	Withdrawal	200.00	2050.00
6/15/2020	Deposit	450.00	2500.00
7/1/2020	Withdrawal	150.00	2350.00
7/15/2020	Deposit	300.00	2650.00
8/1/2020	Withdrawal	100.00	2550.00
8/15/2020	Deposit	400.00	2950.00
9/1/2020	Withdrawal	250.00	2700.00
9/15/2020	Deposit	350.00	3050.00
10/1/2020	Withdrawal	150.00	2900.00
10/15/2020	Deposit	450.00	3350.00
11/1/2020	Withdrawal	200.00	3150.00
11/15/2020	Deposit	300.00	3450.00
12/1/2020	Withdrawal	100.00	3350.00
12/15/2020	Deposit	400.00	3750.00
1/1/2021	Opening Balance	3750.00	3750.00

Date	Description	Amount	Balance
1/1/20	Opening Balance		1000.00
1/5/20	Deposit	500.00	1500.00
1/10/20	Withdrawal	200.00	1300.00
1/15/20	Deposit	300.00	1600.00
1/20/20	Withdrawal	100.00	1500.00
1/25/20	Deposit	400.00	1900.00
1/30/20	Withdrawal	150.00	1750.00
2/1/20	Deposit	250.00	2000.00
2/5/20	Withdrawal	100.00	1900.00
2/10/20	Deposit	350.00	2250.00
2/15/20	Withdrawal	200.00	2050.00
2/20/20	Deposit	450.00	2500.00
2/25/20	Withdrawal	150.00	2350.00
2/30/20	Deposit	300.00	2650.00
3/1/20	Withdrawal	100.00	2550.00
3/5/20	Deposit	400.00	2950.00
3/10/20	Withdrawal	250.00	2700.00
3/15/20	Deposit	350.00	3050.00
3/20/20	Withdrawal	150.00	2900.00
3/25/20	Deposit	450.00	3350.00
3/30/20	Withdrawal	200.00	3150.00
3/31/20	Balance		3150.00



Date	Description	Amount	Balance
1/1/2020	Opening Balance		1000.00
1/5/2020	Deposit	500.00	1500.00
1/10/2020	Withdrawal	200.00	1300.00
1/15/2020	Deposit	300.00	1600.00
1/20/2020	Withdrawal	100.00	1500.00
1/25/2020	Deposit	400.00	1900.00
1/30/2020	Withdrawal	150.00	1750.00
2/5/2020	Deposit	250.00	2000.00
2/10/2020	Withdrawal	300.00	1700.00
2/15/2020	Deposit	150.00	1850.00
2/20/2020	Withdrawal	200.00	1650.00
2/25/2020	Deposit	350.00	2000.00
2/28/2020	Withdrawal	100.00	1900.00
3/1/2020	Deposit	450.00	2350.00
3/5/2020	Withdrawal	250.00	2100.00
3/10/2020	Deposit	300.00	2400.00
3/15/2020	Withdrawal	150.00	2250.00
3/20/2020	Deposit	400.00	2650.00
3/25/2020	Withdrawal	200.00	2450.00
3/30/2020	Deposit	350.00	2800.00
4/5/2020	Withdrawal	150.00	2650.00
4/10/2020	Deposit	400.00	3050.00
4/15/2020	Withdrawal	250.00	2800.00
4/20/2020	Deposit	300.00	3100.00
4/25/2020	Withdrawal	150.00	2950.00
4/30/2020	Deposit	450.00	3400.00
5/5/2020	Withdrawal	200.00	3200.00
5/10/2020	Deposit	350.00	3550.00
5/15/2020	Withdrawal	150.00	3400.00
5/20/2020	Deposit	400.00	3800.00
5/25/2020	Withdrawal	250.00	3550.00
5/30/2020	Deposit	300.00	3850.00
6/5/2020	Withdrawal	150.00	3700.00
6/10/2020	Deposit	450.00	4150.00
6/15/2020	Withdrawal	200.00	3950.00
6/20/2020	Deposit	350.00	4300.00
6/25/2020	Withdrawal	150.00	4150.00
6/30/2020	Deposit	400.00	4550.00
7/5/2020	Withdrawal	250.00	4300.00
7/10/2020	Deposit	300.00	4600.00
7/15/2020	Withdrawal	150.00	4450.00
7/20/2020	Deposit	450.00	4900.00
7/25/2020	Withdrawal	200.00	4700.00
7/30/2020	Deposit	350.00	5050.00
8/5/2020	Withdrawal	150.00	4900.00
8/10/2020	Deposit	400.00	5300.00
8/15/2020	Withdrawal	250.00	5050.00
8/20/2020	Deposit	300.00	5350.00
8/25/2020	Withdrawal	150.00	5200.00
8/30/2020	Deposit	450.00	5650.00
9/5/2020	Withdrawal	200.00	5450.00
9/10/2020	Deposit	350.00	5800.00
9/15/2020	Withdrawal	150.00	5650.00
9/20/2020	Deposit	400.00	6050.00
9/25/2020	Withdrawal	250.00	5800.00
9/30/2020	Deposit	300.00	6100.00
10/5/2020	Withdrawal	150.00	5950.00
10/10/2020	Deposit	450.00	6400.00
10/15/2020	Withdrawal	200.00	6200.00
10/20/2020	Deposit	350.00	6550.00
10/25/2020	Withdrawal	150.00	6400.00
10/30/2020	Deposit	400.00	6800.00
11/5/2020	Withdrawal	250.00	6550.00
11/10/2020	Deposit	300.00	6850.00
11/15/2020	Withdrawal	150.00	6700.00
11/20/2020	Deposit	450.00	7150.00
11/25/2020	Withdrawal	200.00	6950.00
11/30/2020	Deposit	350.00	7300.00
12/5/2020	Withdrawal	150.00	7150.00
12/10/2020	Deposit	400.00	7550.00
12/15/2020	Withdrawal	250.00	7300.00
12/20/2020	Deposit	300.00	7600.00
12/25/2020	Withdrawal	150.00	7450.00
12/30/2020	Deposit	450.00	7900.00