

TRUNCATED AXIS

```
prompt="""
```

```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
```

```
Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How would you rate the difference in values between the first bar and the second bar?
```

```
Answer Options:
```

- ```
1. No difference: The values of the two bars are exactly equal.  
2. Extremely small difference: The difference is less than 5% of the larger value.  
3. Very small difference: The difference is 5% to less than 10% of the larger value.  
4. Small difference: The difference is 10% to less than 25% of the larger value.  
5. Large difference: The difference is 25% to less than 50% of the larger value.  
6. Very large difference: The difference is 50% to less than 100% of the larger value.  
7. Extremely large difference: The difference is 100% or more (i.e., one bar is at least double the other).
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INVERTED AXIS

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prompt="""
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```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
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```
Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How strongly do you agree that the trend shows an overall increase?
```

```
Answer Options:
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- ```
1. Strongly Disagree : The y-values decrease for 100% of the x-axis range, with a strong and consistent downward trend.  
2. Disagree : The y-values decrease for 50% to less than 100% of the x-axis range.  
3. Somewhat Disagree : The y-values decrease for 1% to less than 50% of the x-axis range.  
4. Neutral : The y-values neither show a clear increase nor a decrease across the x-axis.  
5. Somewhat Agree : The y-values increase for 1% to less than 50% of the x-axis range.  
6. Agree : The y-values increase for 50% to less than 100% of the x-axis range.  
7. Strongly Agree : The y-values increase for 100% of the x-axis range, with a strong and consistent upward trend.
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ASPECT RATIO

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prompt="""
```

```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
```

```
Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How strong is the trend depicted in the chart?
```

```
Answer Options:
```

- ```
1. Neutral : The trend is neither clearly increasing nor decreasing, with no consistent direction.  
2. Very Weak : The trend is nearly flat, with barely any noticeable change, and occupies less than 10% of the x-axis.  
3. Weak : The trend is shallow and difficult to distinguish, with small changes in y-values, and occupies around 10% to 30% of the x-axis.  
4. Slightly Weak : The trend is present but not very strong, showing fluctuations, and occupies around 30% to 50% of the x-axis.  
5. Slightly Strong : The trend is noticeable and somewhat steady, with a clear direction, and occupies around 50% to 70% of the x-axis.  
6. Strong : The trend is distinct and sustained, with a well-defined direction, and occupies around 70% to 90% of the x-axis.  
7. Very Strong : The trend is steep and consistent, dominating the entire chart, and occupies more than 90% of the x-axis.
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DATA VISUAL DISPROPORTION

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prompt="""
```

Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.

Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:

1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.

****The output should strictly follow the given format**:**

Option {1-7}: {1 line explanation covering both selection and elimination reasons}

Question: Which statement best describes the disparity between the quantities represented by the circles?

Answer Options:

1. There is no disparity: The circles represent equal quantities.
2. The disparity is very small: The larger circle represents 1x to 1.5x the quantity of the smaller circle.
3. The disparity is small: The larger circle represents 1.5x to 2x the quantity of the smaller circle.
4. The disparity is moderate: The larger circle represents 2x to 3x the quantity of the smaller circle.
5. The disparity is large: The larger circle represents 3x to 5x the quantity of the smaller circle.
6. The disparity is very large: The larger circle represents 5x to 10x the quantity of the smaller circle.
7. The disparity is extremely large: The larger circle represents more than 10x the quantity of the smaller circle.

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DUAL AXIS

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prompt="""
```

```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
```

```
Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How would you rate the difference between the trends of the two lines in the chart?
```

```
Answer Options:
```

- ```
1. No Similarity: The trend is similar for 0% of the chart, showing completely different movements.  
2. Extremely Small Similarity: The trend is similar for less than 5% of the chart, with only brief matching segments.  
3. Very Small Similarity: The trend is similar for 5% to less than 10% of the chart, with minimal overlap.  
4. Small Similarity: The trend is similar for 10% to less than 25% of the chart, but differences dominate.  
5. Large Similarity: The trend is similar for 25% to less than 50% of the chart, showing a mix of similarities and differences.  
6. Very Large Similarity: The trend is similar for 50% to less than 100% of the chart, with only minor differences.  
7. Extremely Large Similarity: The trend is similar for 100% of the chart, following the same direction, slope, and fluctuations.
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DISTORTED PROJECTION

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prompt="""
```

```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
```

```
Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: Which statement best describes the disparity between the highest and the second highest quantity in the pie chart?
```

```
Answer Options:
```

- ```
1. No disparity: The two largest segments represent equal quantities.  
2. Extremely small disparity: The largest segment represents 1x to more than 1.25x the quantity of the second-largest segment.  
3. Very small disparity: The largest segment represents 1.25x to more than 1.5x the quantity of the second-largest segment.  
4. Small disparity: The largest segment represents 1.5x to more than 2x the quantity of the second-largest segment.  
5. Moderate disparity: The largest segment represents 2x to more than 3x the quantity of the second-largest segment.  
6. Large disparity: The largest segment represents 3x to more than 5x the quantity of the second-largest segment.  
7. Very large disparity: The largest segment represents more than 5x the quantity of the second-largest segment.
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Inappropriate Continuous Encoding

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prompt="""
```

```
Analyze the given chart and determine the correct answer to the multiple-choice question. Select the option number that best aligns with the data presented.
```

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Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How would you describe the overall trend depicted in the chart?
```

```
Answer Options:
```

- ```
1. No Trend: The data primarily represents categorical values.  
2. Extremely Weak: The y-values change for 1% to less than 5% of the x-axis range, with an almost negligible trend.  
3. Very Weak: The y-values change for 5% to less than 10% of the x-axis range, with a slight increasing or decreasing tendency.  
4. Weak: The y-values change for 10% to less than 20% of the x-axis range, showing a minor but noticeable trend.  
5. Strong: The y-values change for 20% to less than 50% of the x-axis range, with a somewhat clear upward or downward pattern.  
6. Very Strong: The y-values change for 50% to less than 75% of the x-axis range, following a well-defined increasing or decreasing trend.  
7. Extremely Strong: The y-values change for 75% to 100% of the x-axis range, with a strong and consistent upward or downward trend.
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Inappropriate Categorical Encoding

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prompt="""
```

```
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```

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Additionally, provide a concise yet comprehensive 1 line explanation justifying the selected option. The explanation should include:
```

- ```
1. The rationale for choosing the correct answer.
2. The reasons why the other options are incorrect.
```

```
The output should strictly follow the given format:
```

```
Option {1-7}: {1 line explanation covering both selection and elimination reasons}
```

```
Question: How would you describe the overall trend depicted in the chart?
```

```
Answer Options:
```

- ```
1. Neutral: There is no significant upward or downward trend in the chart.  
2. Extremely Weak: The y-values change for 1% to less than 5% of the x-axis range, with an almost negligible trend.  
3. Very Weak: The y-values change for 5% to less than 10% of the x-axis range, with a slight increasing or decreasing tendency.  
4. Weak: The y-values change for 10% to less than 20% of the x-axis range, showing a minor but noticeable trend.  
5. Strong: The y-values change for 20% to less than 50% of the x-axis range, with a somewhat clear upward or downward pattern.  
6. Very Strong: The y-values change for 50% to less than 75% of the x-axis range, following a well-defined increasing or decreasing trend.  
7. Extremely Strong: The y-values change for 75% to 100% of the x-axis range, with a strong and consistent upward or downward trend.
```

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"""
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