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Percent Change Worksheet

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Part 1: Building a Foundation

What is the formula for calculating percent change?

Hint: Think about how you determine the difference between two values.

○ ((Original Value - New Value) / New Value) * 100
○ ((New Value - Original Value) / Original Value) * 100
○ ((New Value + Original Value) / Original Value) * 100
○ ((Original Value + New Value) / New Value) * 100

Which of the following are necessary steps in calculating percent change? (Select all that apply)

Hint: Consider the steps involved in the calculation process.

☐ Identify the original and new values.
☐ Multiply the original value by 100.
☐ Subtract the original value from the new value.
☐ Divide the change by the original value.

Explain in your own words what a positive percent change indicates about the relationship between the original and new values.

Hint: Think about how the values compare to each other.

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List two fields where percent change is commonly applied and provide a brief example for each.

Hint: Consider areas like finance, economics, or science.

1. Field 1: Finance

2. Field 2: Economics

Part 2: comprehension and Application

If a stock price increases from $50 to $75, what type of percent change does this represent?

Hint: Consider whether the value has gone up or down.

◯ Decrease
◯ Increase
◯ No Change
◯ Error in Calculation

Which scenarios below correctly describe a percent decrease? (Select all that apply)

Hint: Think about situations where values have dropped.

☐ A population grows from 1,000 to 1,200.
☐ A product price drops from $100 to $80.
☐ A company's revenue falls from $500,000 to $450,000.
☐ A car's value increases from $20,000 to $22,000.

Describe how percent change can be used to analyze economic trends, such as inflation or GDP growth.

Hint: Consider how these metrics are calculated and interpreted.

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A scientist measures the growth of a plant from 20 cm to 30 cm. What is the percent change in the plant's height?

Hint: Use the percent change formula to calculate.

○ 25%

○ 33.33%

○ 50%

○ 66.67%

Calculate the percent change if a company's profits increase from $200,000 to $260,000, and explain the significance of this change.

Hint: Use the percent change formula and consider its implications.

Part 3: Analysis, Evaluation, and Creation

If the percent change in sales from one year to the next is negative, what can be inferred about the sales trend?

Hint: Consider what a negative change indicates.

○ Sales have increased.

○ Sales have decreased.

○ Sales have remained constant.

○ Sales data is insufficient.

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Analyze the following situations and identify which represent a percent increase. (Select all that apply)

Hint: Look for scenarios where values have gone up.

☐ A decrease in temperature from 30°C to 20°C.

☐ An increase in student enrollment from 500 to 550.

☐ A reduction in expenses from $1,000 to $800.

☐ An increase in the number of employees from 100 to 120.

Analyze how percent change can impact decision-making in business, providing a specific example.

Hint: Consider how businesses use percent change in their strategies.

A company reports a 15% increase in production efficiency. What might be a potential cause for this change?

Hint: Think about factors that could lead to improved efficiency.

○ Increased labor costs

○ Implementation of new technology

○ Reduction in workforce

○ Decrease in product demand

Propose a strategy for a business to achieve a positive percent change in sales over the next quarter, considering current market trends.

Hint: Think about marketing, product development, or customer engagement.

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Create two real-world scenarios where calculating percent change would be essential, and explain why it is important in each case.

Hint: Consider different industries or situations.

1. Scenario 1: Stock Market Analysis

2. Scenario 2: Sales Performance Review

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