

Percent Change Worksheet Questions and Answers PDF

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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.

- $((\text{Original Value} - \text{New Value}) / \text{New Value}) * 100$
- $((\text{New Value} - \text{Original Value}) / \text{Original Value}) * 100$ ✓
- $((\text{New Value} + \text{Original Value}) / \text{Original Value}) * 100$
- $((\text{Original Value} + \text{New Value}) / \text{New Value}) * 100$

The correct formula for calculating percent change is the one that compares the change to the original value.

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.** ✓

Necessary steps include identifying values and calculating the change relative to 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.

A positive percent change indicates that the new value is greater than the original value.

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

Example: Stock price changes.

2. Field 2: Economics

Example: Inflation rates.

Percent change is commonly applied in finance and economics, among other fields.

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

| This represents a percent increase since the stock price has risen.

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.

| A percent decrease occurs when the new value is less than the original value.

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.

| **Percent change helps in understanding the rate of change in economic indicators over time.**

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%

| The percent change in height is calculated as an increase from the original height.

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.

The percent change indicates the growth in profits, which can be significant for business decisions.

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.

A negative percent change indicates that sales have decreased over the period.

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. ✓

A percent increase occurs when the new value is greater than the original value.

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

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

Percent change can guide business decisions by indicating trends and performance.

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

A potential cause for increased efficiency could be the implementation of new technology.

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.

A strategy could involve enhancing marketing efforts or improving product offerings to boost sales.

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

Investors analyze percent change in stock prices to make informed decisions.

2. Scenario 2: Sales Performance Review

Businesses assess percent change in sales to evaluate marketing effectiveness.

Calculating percent change is essential in finance and marketing to assess performance and trends.