



# Percent Increase And Decrease Worksheets

Name _____	Date _____	
<b>PERCENTAGE INCREASE AND DECREASE SHEET 3</b>		
<i>Find the final amounts after the percentage increase or decrease.</i>		
Working out		
1) Increase \$1500 by 35%		
2) Decrease \$840 by 15%		
3) Increase 820 yards by 70%		
4) Decrease 52 inches by 25%		
5) Increase 72 gallons by 12%		
6) Increase 120 miles by 36%		
7) Decrease 82 ounces by 15%		
8) Decrease \$7000 by 28%		
9) Increase 120 cm by 32%		
10) Decrease 180 lb by 14%		
11) Increase 130 seconds by 22%		
12) Decrease 320 minutes by 65%		
13) Increase 76 miles by 86%		
14) Decrease \$12,000 by 72%		
15) Increase \$9,000 by 43%		
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**Percent increase and decrease worksheets** are essential educational tools that help students grasp the concepts of percentage changes effectively. Understanding how to calculate percent increase and decrease is vital in various real-life situations, such as financial literacy, sales analysis, and even academic assessments. This article will delve into what percent increase and decrease worksheets are, their importance, how to create them, and tips for using them effectively in educational settings.

## Understanding Percent Increase and Percent Decrease

Before diving into worksheets, it's crucial to comprehend what percent increase and decrease mean.

## What is Percent Increase?

Percent increase measures how much a quantity has grown relative to its original amount. The formula for calculating percent increase is:

$$\text{Percent Increase} = \left( \frac{\text{New Value} - \text{Original Value}}{\text{Original Value}} \right) \times 100$$

For example, if a product's price rises from \$50 to \$60, the percent increase can be calculated as follows:

$$\text{Percent Increase} = \left( \frac{60 - 50}{50} \right) \times 100 = 20\%$$

## What is Percent Decrease?

On the other hand, percent decrease evaluates how much a quantity has diminished compared to its original amount. The formula for calculating percent decrease is:

$$\text{Percent Decrease} = \left( \frac{\text{Original Value} - \text{New Value}}{\text{Original Value}} \right) \times 100$$

For instance, if a product's price drops from \$80 to \$60, the percent decrease can be calculated as follows:

$$\text{Percent Decrease} = \left( \frac{80 - 60}{80} \right) \times 100 = 25\%$$

## Importance of Percent Increase and Decrease Worksheets

Percent increase and decrease worksheets are crucial for several reasons:

- **Skill Development:** These worksheets enhance students' mathematical skills by providing practice in calculating percentages.
- **Real-Life Applications:** Understanding percent changes is essential in everyday scenarios such as budgeting, shopping, and evaluating investments.

- **Critical Thinking:** Worksheets encourage critical thinking as students analyze data and make calculations based on real-world contexts.
- **Preparation for Higher Education:** Mastery of these concepts is often necessary for advanced mathematics, economics, and business courses.

## Creating Percent Increase and Decrease Worksheets

Creating effective percent increase and decrease worksheets involves various considerations to ensure they are educational and engaging. Here are some steps to consider:

### 1. Define Learning Objectives

Before creating the worksheets, it's important to define what you want your students to achieve. Objectives may include:

- Understanding the formulas for percent increase and decrease.
- Applying the formulas to solve real-world problems.
- Analyzing data sets to find percent changes.

### 2. Include a Variety of Problems

To cater to different learning styles and levels, include a mix of problem types. Consider the following formats:

1. **Numerical Problems:** Simple calculations where students find the percent increase or decrease from given values.
2. **Word Problems:** Real-life scenarios that require students to interpret the situation and apply the correct formulas.
3. **Graphical Problems:** Situations where students analyze a graph and determine percent changes based on the data presented.

### 3. Use Real-World Examples

Incorporate examples that are relevant to students' lives. This could include:

- Price changes in items they are familiar with, like video games or clothing.
- Changes in population statistics.
- Financial scenarios, such as discounts and sales.

## **4. Provide Clear Instructions**

Ensure that each worksheet includes clear instructions on how to complete the problems. This may involve:

- Explaining the formulas.
- Offering step-by-step guidance on solving various types of problems.
- Encouraging students to show their work for better understanding.

## **5. Include an Answer Key**

An answer key is essential for self-assessment and for teachers to provide feedback. When creating your worksheets, include the following:

- Solutions to each problem.
- Step-by-step explanations for complex questions.

# **Tips for Using Percent Increase and Decrease Worksheets Effectively**

To maximize the benefits of percent increase and decrease worksheets, consider these tips:

## **1. Integrate with Other Subjects**

Show students how percent increase and decrease relate to other subjects. For example:

- In science, discuss how populations of species change over time.
- In economics, analyze price changes in market trends.

## **2. Encourage Group Work**

Promote collaborative learning by having students work in pairs or small groups. This encourages discussion, enhances understanding, and allows students to learn from one another.

## **3. Incorporate Technology**

Utilize online tools and resources to enhance learning. Many educational websites offer interactive percent change calculators and games that make learning fun and engaging.

## **4. Offer Additional Practice**

Provide supplementary worksheets or online resources for students who need more practice. This can help reinforce their understanding and build confidence in using these concepts.

## **5. Assess Understanding Regularly**

Regular assessments can help gauge students' understanding of percent increase and decrease. Use quizzes, tests, or informal assessments to evaluate their grasp of the material.

## **Conclusion**

Percent increase and decrease worksheets are invaluable resources for teaching students essential mathematical concepts. By providing a structured approach to creating these worksheets and employing effective teaching strategies, educators can foster a deeper understanding of percentage changes. This knowledge not only helps students excel in mathematics but also equips them with skills they will use throughout their lives, making them more informed individuals in a rapidly changing world.

## **Frequently Asked Questions**

### **What are percent increase and decrease worksheets?**

Percent increase and decrease worksheets are educational resources designed to help students practice calculating the percentage increase or decrease of a given quantity. They typically include a variety of problems that require students to determine how much a number has increased or decreased in percentage terms.

### **How can percent increase and decrease worksheets benefit students?**

These worksheets help students develop critical math skills, improve their understanding of percentages, and apply these concepts in real-life situations, such as calculating discounts, sales tax, or changes in prices.

### **What grade levels are appropriate for percent increase and decrease worksheets?**

Percent increase and decrease worksheets are commonly used in middle school math classes, typically for students in grades 6 through 8, but they can also be beneficial for high school students who need a refresher on these concepts.

## Where can I find free percent increase and decrease worksheets?

Free percent increase and decrease worksheets can be found on educational websites, teacher resource platforms, and math education blogs. Websites like Teachers Pay Teachers, Education.com, and Khan Academy often offer downloadable worksheets or interactive exercises.

## What types of problems are included in percent increase and decrease worksheets?

These worksheets generally include problems that ask students to solve for the percent change based on given values, word problems that describe real-life scenarios involving increases or decreases, and multi-step problems that require critical thinking and application of the percentage formula.

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