

# Ratios & Proportional Relationships

## Percent Problems

7th Grade Common Core

Term 1 Unit 2

7.RP.A.3

# This is Your Homepage

<a href="#"><u>Learn Zillion Video Lessons: Percent of Change</u></a>	<a href="#"><u>Miscellaneous Video Lessons</u></a>	<a href="#"><u>IXL Practice Percent of a Number &amp; Percent Equation</u></a>
<a href="#"><u>Learn Zillion Video Lessons: Percent of a Number</u></a>	<a href="#"><u>Virtual Nerd Percent Proportion, Proportionality</u></a>	<a href="#"><u>IXL Practice Unit Rates &amp; Percent of Change</u></a>
<a href="#"><u>Learn Zillion Video Lessons: Proportions</u></a>	<a href="#"><u>Virtual Nerd Video Lessons Sales Tax, Discount</u></a>	<a href="#"><u>IXL Practice Sales Tax, Discount, Simple &amp; Compound Interest</u></a>
<a href="#"><u>Learn Zillion Video Lessons: Solving Percent</u></a>	<a href="#"><u>Virtual Nerd Video Lessons Percent of Change</u></a>	<a href="#"><u>Interactive Game Sites</u></a>
<a href="#"><u>Learn Zillion Video Lessons: Sales Tax &amp; Discount</u></a>	<a href="#"><u>KHAN Academy Practice</u></a>	<a href="#"><u>Songs &amp; Videos I</u></a>
<a href="#"><u>KHAN Academy Video Lessons</u></a>	<a href="#"><u>Miscellaneous Practice Sites</u></a>	<a href="#"><u>Songs &amp; Videos II</u></a>

LearnZillion Video Lessons  
Percent of Change  
7.RP.A.3

Find Percent of Increase:  
Using a Proportion

Find Percent of Decrease:  
Using a Proportion

Calculate Percent Increase  
and Decrease in Context

Find the Percent of Change  
and What Percent the Final  
Amount is of  
the Original Amount

Find the Amount of Change  
and the Final Amount,  
Given the Percent of Change  
and the Original Amount

Find the Original Amount and  
the Amount of Change, Given  
the Percent and Final Amount

$$\text{percent change} = \frac{\text{amount of change}}{\text{original amount}} \times 100$$

[Home](#)

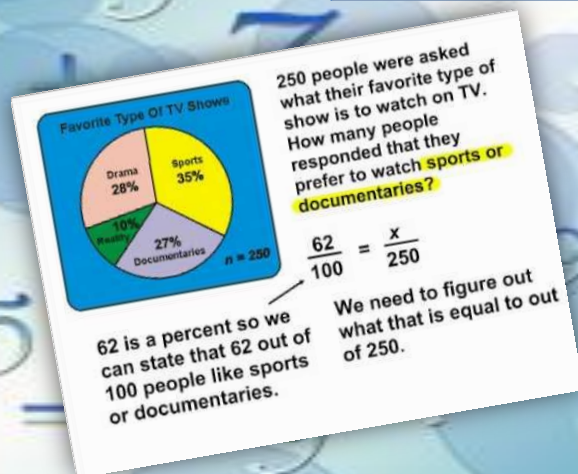
# LearnZillion Video Lessons

## Percent of a Number

### 7.RP.A.3

Solve Percent of a Number Problems  
Using a Proportion Model

Calculate Percent of a Number  
Using a Proportion Model



[Home](#)

**LearnZillion Video Lessons**  
**Proportions**  
**7.RP.A.3**

[Solve Multi-step Ratio and Percent Problems Using Proportions](#)

[Solve Multistep Percent Problems Using Proportions and Equations](#)

[Solve Ratio and Percent Problems Using a Proportion](#)

[Compute Successive Percentages Using Proportions and Equations](#)



**Home**

LearnZillion Video Lessons  
Solving Percents  
7.RP.A.3

Estimate a Percent Value  
Using a Bar Model

Solve Ratio and Percent Problems  
Using Bar Models

Solve For an Unknown Percentage

Understand Percent Problems

*Life is 10 Percent What Happens to You  
and 90 Percent How You Respond to It  
Unknown*

**Home**

LearnZillion Video Lessons  
Sales Tax, Discount, Tips  
7.RP.A.3

Apply Taxes, Tips, and Discounts  
Using a Proportion  
and Scale Factor

Solve Problems with Taxes:  
Using Proportions

Solve Problems with Tips:  
Using Proportions



[Home](#)

**KHAN Academy Video Lessons**  
**7.RP.A.3**

[Constructing Equations from Proportions to Solve Application Problems](#)

[Introduction to Interest \(Part 1\)](#)

[Introduction to Interest \(Part 2\)](#)

[Introduction to Compound Interest](#)

[Solve a Proportion with Unknown Variable](#)

[Solve a Proportion with Unknown Variable Word Problem](#)

[Writing Proportions](#)



**Home**



Miscellaneous Video Lessons  
7.RP.A.3

[Spy Guys Lesson 4](#)

[Find Percent Increase or Decrease](#)

[Percent Lesson 3-Discount, Tax, Tip](#)

[PBS Math Club: Different Screen Sizes, Equal Ratios](#)

[Algebra: Percent Increase or Decrease](#)

[Math In Daily Life: How to Calculate Sales Tax](#)

[The Simple Interest Formula](#)

[Percent Increase & Decrease Video](#)

[Calculating Sales Tax](#)

[Simple Interest - MuchoMath](#)

[Calculating Sales Tax and Commission](#)

[Tax, Tip, Discount & Commission](#)

[\*\*Home\*\*](#)

Virtual Nerd Video Lessons  
Percent Proportion, Proportionality  
7.RP.A.3

[How Do You Solve a Word Problem Using a Proportion?](#)

[How Do You Set Up a Percent Proportion from a word Problem?](#)

[How Do You Solve a Proportion by Finding an Equivalent Ratio?](#)

[How Do You Figure Out a Percent From a Part to Part Ratio?](#)

[What's the Means-Extremes Property of Proportions?](#)

[How Do You Solve a Proportion Using Cross Products?](#)

[How Do You Use an Equation to Find a Part of a Whole?](#)

[How Do You Use a Proportion to Find What Percent a Part is of a Whole?](#)

[How Do You Figure Out a Percent From a Part to Whole Ratio?](#)

[What are the Means and Extremes of Proportions?](#)

[Home](#)

Virtual Nerd Video Lessons  
Sales Tax, Discount  
7.RP.A.3

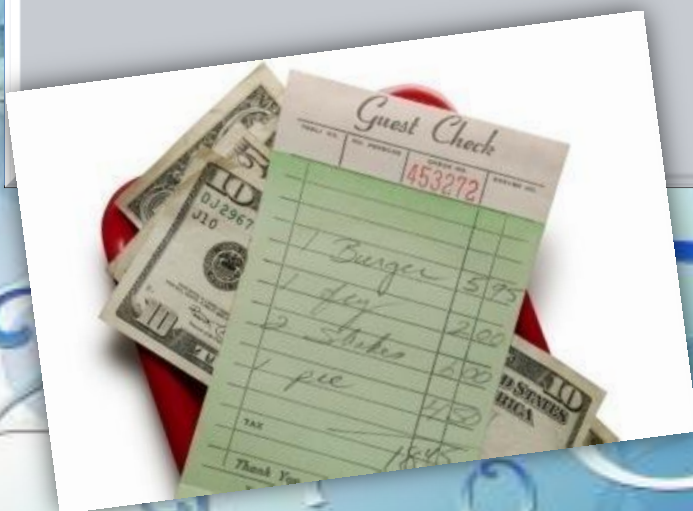
How Do You Figure Out  
Sales Tax?

How Do You Figure Out  
the Price of a  
Marked Up Item?

How Do I Estimate  
a Sale Tax?

How Do You Figure Out  
How Much Something  
is Marked Down?

How Do You Figure Out  
a Tip?



[Home](#)

# Virtual Nerd Video Lessons

## Percent of Change

### 7.RP.A.3



What's Percent of Change?

How Do You Figure Out Percent of Change?

How Do You Figure Out Whether a Percent of Change is an Increase or a Decrease?

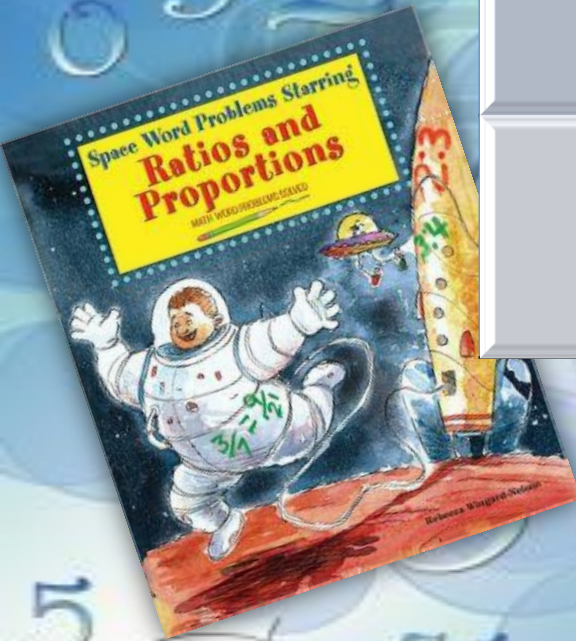
[Home](#)

**KHAN Academy Practice**  
**7.RP.A.3**

Solve a Proportion  
with Unknown Variable

Proportions 1

Constructing Proportions  
to Solve Application Problems



**Home**

Miscellaneous Practice  
7.RP.A.3

Consumer Math

Dividing Fractions  
(National Library of  
Virtual Manipulatives)

Percent Increase  
and Decrease

Calculate Percent  
(National Library of  
Virtual Manipulatives)

Percent Application:  
Commission Practice

Percent Application:  
Finding Tax Practice



Home

IXL Practice  
Unit Rates & Percent of Change  
7.RP.A.3

Percent of Change

Percent of Change:  
Word Problems

Unit Prices  
with Unit Conversions

Unit Prices:  
Find the Total Price



[Home](#)

IXL Practice  
Percent of a Number & Percent Equation  
7.RP.A.3

Estimate  
Percents of Numbers

Solve Percent Equations

Percents of Numbers  
and Money Amounts

Solve Percent Equations:  
Word Problems

Percents of Numbers:  
Word Problems

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100} \text{ or } \frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

Percentage formula

Home



IXL Practice  
Sales Tax, Discount, Simple & Compound Interest  
7.RP.A.3

Percent of a Number:  
Tax, Discount, and  
More

Simple Interest

Find the Percent: Tax,  
Discount, and More

Compound Interest

Sales Prices: Find the  
Original Price

Multi-step Problems  
with Percents

Estimate Tips



[Home](#)

**Interactive Game Sites**  
**7.RP.A.3**

[Shopping at Troy's Toys](#)

[Sales Tax Game](#)

[Dirt Bike Proportions](#)

[Simple Interest Game](#)

[Math at the Mall](#)

[Rags to Riches  
\(Percent of Change\)](#)

[Penguin Waiter  
Percent Game](#)

[Percent Proportion](#)

[\*\*Home\*\*](#)

**Songs & Videos I**  
**7.RP.A.3**

[The Interest Song - Title Song](#)

[Simple Interest Video](#)

[Percentage Change Song](#)

[Percent Song: You Spin...Percents?! \(Percent of Change\)](#)

[Simple Interest Flip Video Homework Moore](#)

[Percentage of Change Rap](#)

[I Love Math, Math Rap](#)

Simple Interest  $I = P \cdot R \cdot T$

I = Interest

P = Principal

R = Interest Rate

T = Time in Years      Note: 1 Year = 360 days



**Home**

**Songs & Videos II**  
**7.RP.A.3**

[Tax, Tip, and Commission Rap](#)

[Schoolhouse Rock - Dollars and Sense](#)

[Sales Tax Rap PPT Animation by Nolan Adams](#)

[Schoolhouse Rock - Money - Tax Man Max](#)

[The Sales Tax Blues](#)

[Financial Math Song - Fun Learning Math!](#)

[Mom Tax!](#)

[Simple Interest w/ Students "Matthew, Nathan, & Harry"](#)



**Home**