

## Decimals

**WebQuest Description:** This WebQuest is designed to enforce proficiency with decimals in a fun and interesting way.

MGSE5.NBT.3 READ, WRITE, and COMPARE decimals to thousandths.

A. READ and WRITE decimals to thousandths using base-ten numerals, number names, and expanded form.

B. COMPARE two decimals to thousandths based on meanings of the digits in each place, using  $,$  or  $=$  symbols to record the results of comparisons.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

MGSE5.NBT.7 ADD, SUBTRACT, DIVIDE, and MULTIPLY decimals to hundredths, USING concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; RELATE the strategy to a written method and EXPLAIN the reasoning used.

**Grade Level:** 3-5

**Curriculum:** Math

**Keywords:** decimals, adding, subtracting, multiplying, dividing, comparing, place value

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## Introduction

Dear Architect, We've been discussing ways to improve the habitats of animals at the Atlanta Zoo. Our interview with the Atlanta Zoo last week had us thinking of various ways to change the layout of the zoo by using decimals in various ways for our blueprints. Today we received a message from the Atlanta Zoo asking us to submit our layouts. The best layout will be used for the new construction of the Atlanta Zoo. Before we submit our layout we have to make sure we've explored the many layers of decimals to ensure accurate calculations in our blueprints. Your mission is to explore decimals by completing tasks that will require intensive mathematical knowledge and skill. If you can complete all the tasks, you will move on to designing your layout for the zoo. Get your thinking gear (pencil, notes and paper) and begin your exploring! Happy Decimals, The Future Architects of Habitats

## Tasks

Today you will explore the many layers of decimals in order to prepare you for creating your own blueprint for the Atlanta Zoo! Before designing your blueprint you will complete a series of tasks that will require you to use your knowledge of decimals to be successful. You have paper, notes and pencils to use to help you complete each task. If you are able to complete each task, you will be rewarded! Students will be able to: -READ and WRITE decimals to thousandths. -COMPARE two decimals to thousandths based on meanings of the digits in each place, using  $<$ ,  $>$ , or  $=$  symbols to record the results of comparisons. -ADD, SUBTRACT, DIVIDE, and MULTIPLY decimals to hundredths USING concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; RELATE the strategy to a written method and EXPLAIN the reasoning used.

## Process

Your mission is to complete each task as you rotate through the decimal stations. If you need help completing a task at any station, you may raise your hand and wait for Mrs. Muhammad or a student lead from your station to assist you. After you complete each station Mrs. Muhammad will check your work before you can move on. Now grab your equipment (paper, notes and pencil) and get ready for decimaling! (Show your WORK) Decimal Station 1: To explore the many layers of decimals, login to Frontrow Ed and complete the task assigned to you. You will work with reading, writing, and comparing decimals to the thousandths place. Use your notes as a reference and access the videos on Frontrow Ed for additional support. Click below to start exploring! <https://student.frontrowed.com/#login> Decimal Station 2: After completing adaptive practice on the foundational skills of decimals it's time to move to the next level. You are now ready to shoot for the stars with adding and subtracting decimals. You must score 10 pts. to move on to the next station. (Don't forget to write the problem and your answer!) <http://www.math-play.com/subtracting-decimals-game.html> <http://www.math-play.com/adding-decimals-game.html> Decimal Station 3: Yay! You've made it to the final station! You are now ready to view the multiplying and dividing decimals videos on Brainpop and complete the

