



### Number Concepts Grade 4

Developed by teachers and mathematics specialists, **Number Concepts Grade 4** provides the strategies, skills and practice your students need to develop strong mathematics proficiency. The program teaches the major concepts in grade 4 level numeration. Helpful clues and examples, along with exciting audio-visual content, ensure that students of all learning styles can use the software independently. **Number Concepts Grade 4** is an effective and engaging way to improve student performance with the main concepts of numeracy.

### Targeted Skills

- Number Sense: numbers to 100,000 - standard form/expanded forms, greater than/less than, place value, ordering, rounding, skip counting, written forms, word problems
- Fractions: identifying as shapes or on a line, greater than/less than, ordering, adding/subtracting with like denominators, word problems
- Decimals: understand and compare decimals to hundredths, adding decimals to hundredths, converting to fractions, word problems
- Mixed Operations: converting fractions to decimals, real-world word problems

### Teacher Dashboard

The Teacher Dashboard tracks student progress throughout each program and records the percentage score for every activity completed. This feature provides an overview of how well a student is progressing and allows the teacher to identify strengths and weaknesses.

- Records students' results automatically as they work.
- Prints reports quickly and easily for sharing with parents and staff.
- Provides summary reports by subject or detailed reports by activity.
- Allows teachers to print reports for individual students or an entire class.
- Stores student marks in one central location for all programs.

## **Program Outline**

The program is broken down into 4 main units, which can all be accessed from the main menu. On the following pages, each of these different units are broken down. The main menu units are:

1. Number Sense
2. Fractions
3. Decimals
2. Mixed Operations

## 1 - Number Sense

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
<b>Base Ten Blocks</b>	Identify visual representation of a number with base ten blocks.	use base ten blocks to identify numbers to 100,000
<b>Write in Standard Form I</b>	Write an expanded form number in standard form.	understand expanded and standard forms for numbers up to 100,000
<b>Write in Standard Form II</b>		
<b>Write in Expanded Form</b>	Write a standard form number in expanded form.	
<b>Place Value</b>	Identify the digit in the given place value.	understand place value for numbers to 100,000
<b>Complete Number Chart</b>		
<b>Make Biggest and Smallest</b>	Make the biggest and smallest number you can from a given set of digits.	
<b>Greater, Less or Equal?</b>	Compare and order numbers to 100,000	order numbers to 100,000
<b>Order the Numbers</b>		
<b>Round and Round</b>	Round numbers to various place values up to 100,000	round numbers to 100,000
<b>Rounding Chart</b>		
<b>Skip Counting</b>	Count by various increments up to 100,000	understand skip counting up to 100,000
<b>Complete the Check</b>	Real-world problems involving written form of numbers to 100,000.	apply mathematical concepts to real-world applications
<b>Written Populations</b>		
<b>Number Sense Word Problems</b>		

## 2 - Fractions

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
<b>Does it Show Equal Parts?</b>	Is the given shape divided equally?	understand that fractions are divided into equal parts
<b>Click the Correct Fraction</b>	Identify the written form of a fraction.	understand fraction notation
<b>What Fraction is Colored?</b>	Identify the colored fraction of a divided box as a fraction.	identify fractions from a given example
<b>Equal Fractions</b>	Step-by-step guide through basic fraction equivalencies	understand equal fractions
<b>Fractions on a Line</b>	Identify fractions on a given number line.	understand relationship between fractions and a number line
<b>Greater, Less or Equal?</b>	Compare the value of two fractions.	compare the value of various fractions
<b>Order the Fractions</b>	Order several given fractions.	
<b>Adding Fractions I</b>	Add and subtract fractions with equal denominators.	add and subtract fractions with equal denominators
<b>Adding Fractions II</b>		
<b>Adding Fractions III</b>		
<b>Subtracting Fractions I</b>		
<b>Subtracting Fractions II</b>		
<b>Fraction Word Problems</b>		

## 3 - Decimals

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
<b>Which Decimal is Colored? I</b>	Identify the colored fraction of a divided box as a decimal.	identify decimals from a given example
<b>Which Decimal is Colored? II</b>		
<b>Click the Correct Decimal</b>	Identify the written form of a given decimal.	understand written form of decimals to hundredths
<b>Write the Decimal</b>	Complete the written form of a given decimal.	
<b>Place Value</b>	Identify the digit which occupies a given place value in a decimal.	understand place value for decimals to hundredths
<b>Order the Decimals</b>	Click on the decimals in order.	order decimals to hundredths
<b>Count by Tenths</b>	Count up or down by tenths from a given numbers.	count up or down by tenths from a given decimal
<b>Decimals on a Line</b>	Identify decimals on a given number line.	understand relationship between decimals and a number line
<b>Adding Decimals I</b>	Add and subtract decimals to hundredths.	add and subtract decimals to hundredths
<b>Adding Decimals II</b>		
<b>Subtracting Decimals I</b>		
<b>Subtracting Decimals II</b>		
<b>Round and Round</b>	Round decimals to various place values up to hundredths.	round decimals up to hundredths
<b>Money Word Problems</b>	Solve mathematical word problems involving money and decimals.	apply mathematical concepts to real-world applications
<b>Decimal Word Problems</b>		add and subtract decimals to hundredths

## 4 - Mixed Operations

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
<b>Fractions and Decimals I</b>	Type the missing number to convert between given fractions and decimals.	understand relationship between fractions and decimals
<b>Fractions and Decimals II</b>		
<b>Fractions and Decimals III</b>		convert between fractions and decimals
<b>Fractions and Decimals IV</b>		
<b>Word Problems I</b>	Use four operations and all numeracy concepts to solve various real-world word problems.	apply mathematical concepts to real-world applications
<b>Word Problems II</b>		