



Number Concepts Grade 5

Developed by teachers and mathematics specialists, **Number Concepts Grade 5** provides the strategies, skills and practice your students need to develop strong mathematics proficiency. The program teaches the major concepts in grade 5 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 5** is an effective and engaging way to improve student performance with the main concepts of numeracy.

Targeted Skills

- Number Sense: numbers to 1,000,000 - standard form/expanded forms, greater than/less than, place value, ordering, rounding, skip counting, written forms, word problems
- Fractions: fraction types, converting between types, adding/subtracting with like/unlike denominators, lowest common denominators, reducing fractions, word problems
- Decimals: understand and compare decimals to thousandths, adding decimals to thousandths, converting to fractions, multiplying/dividing decimals to tenths, word problems
- Bringing it All Together: converting fractions to decimals, missing term problems, real-world word problems

Marks Manager

The Marks Manager 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
4. Mixed Operations

1 - Number Sense

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Write in Expanded Form I	Write a standard form or written number in expanded form.	understand expanded and standard forms for numbers up to 1,000,000
Write in Expanded Form II		
Write in Standard Form	Write an expanded form number in standard form.	
Place Value	Identify the digit in the given place value.	understand place value for numbers to 1,000,000
Make Biggest and Smallest	Make the biggest and smallest number you can from a given set of digits.	
Greater, Less or Equal?	Compare and order numbers to 1,000,000	order numbers to 1,000,000
Order the Numbers		
Round and Round	Round numbers to various place values up to 1,000,000	round numbers to 1,000,000
Round Three Times		
Skip Counting (two activities)	Count by various increments up to 1,000,000	understand skip counting up to 1,000,000
City Populations	Real-world problems involving written form of numbers to 1,000,000.	apply mathematical concepts to real-world applications understand written form of numbers to 1,000,000

2 - Fractions

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
What Fraction Type?	Is the given fraction proper, improper or a mixed number?	understand fraction types
Add & Subtract - Like Denominators (two activities)	Add and subtract fractions with equal denominators.	add and subtract fractions with equal denominators
Improper Fractions	Convert between improper fractions and mixed fractions.	understand relationship between improper and mixed fractions
Mixed Fractions		
Make Equivalent Fractions	Enter a digit to complete a given fraction equivalency.	understand and make equivalent fractions
Are the Fractions Equal?	Are two given fractions equal?	
Reduce Fractions I	Reduce the fraction you see to the lowest terms.	convert fractions to lowest terms
Reduce Fractions II		
Finding Lowest Common Denominator	Find the lowest common denominator and convert a pair of fractions.	convert pairs of fractions to their lowest common denominator
Add & Subtract - Unlike Denominators I	Add and subtract fractions with unlike denominators.	add and subtract fractions with unlike denominators
Add & Subtract - Unlike Denominators II		
Add & Subtract - Grab Bag		
Word Problems	Solve mathematical word problems involving fractions.	apply mathematical concepts to real-world applications compare the value of various fractions add and subtract fractions with unlike denominators

3 - Decimals

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Place Value	Identify the digit which occupies a given place value in a decimal.	understand place value for decimals to hundredths
Write the Decimal	Type the written form of the decimal you see.	understand written form of decimals to thousandths
Decimal Counting	Count up or down from a given decimal by tenths or hundredths.	count up or down by tenths or hundredths from a given decimal
Round and Round	Round decimals to various place values up to thousandths.	round decimals up to thousandths
Which Will Round?	Which given decimal, if rounded, would result in another given number?	
Adding Decimals I	Add and subtract decimals to thousandths.	add and subtract decimals to thousandths
Adding Decimals II		
Subtracting Decimals I		
Subtracting Decimals II		
Multiplying Decimals I	Multiply decimals up to tenths.	multiply and divide decimals to tenths
Multiplying Decimals II		
Multiplying Shortcuts	Use shortcuts to multiply decimals by 10, 100, 1000.	
Dividing Decimals I	Divide decimals up to tenths.	
Dividing Decimals II		
Money Word Problems (2 activities)	Solve mathematical word problems involving money and decimals.	
Decimal Word Problems		add and subtract decimals to hundredths

4 - Bringing it All Together

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Fractions and Decimals I	Type the missing number to convert between given fractions and decimals.	understand relationship between fractions and decimals
Fractions and Decimals II		
Order the Numbers I	Order a mix of whole numbers, decimals and fractions.	convert between fractions and decimals
Order the Numbers II		
Find the Missing Factor	Find the missing term in multiplication and division problems.	use algebra to solve missing number problems
Find the Missing Dividend		
Find the Missing Divisor		
Grocery Store Problems I	Use division and decimals to answer real-world word problems.	apply mathematical concepts to real-world applications
Grocery Store Problems II		
Word Problems I	Use four operations and all numeracy concepts to solve various real-world word problems.	
Word Problems II		