## 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


## 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.


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## 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 <br> 2. Fractions <br> 3. Decimals <br> 4. Mixed Operations

## Number Concepts Grade 5

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 to1,000,000 |
| 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 <br> understand written form of numbers to $1,000,000$ |

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## 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 <br> compare the value of various fractions add and subtract fractions with unlike denominators |
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## Number Concepts Grade 5

## 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 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. | apply mathematical concepts to real-world applications <br> add and subtract decimals to hundredths |
| Decimal Word Problems |  |  |

## Number Concepts Grade 5

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 <br> convert between fractions and decimals |
| Fractions and Decimals II |  |  |
| Order the Numbers I | Order a mix of whole numbers, decimals and fractions. |  |
| 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 |  |  |

