

# Grade 1 - Maths Overview



## Whole Numbers

- Understand and use ordinal numbers to describe position.
- Count objects in a set, read and write numerals to 10.
- Compare two or more sets of objects up to 10 and identify which set is equal to, more than, or less than the other.
- Compare two sets of objects up to 10 and determine how many more or less are in one set than the other.
- Count and identify 1 more than or 1 less than a number within 10.
- Count and identify 1 more than or 1 less than a number within 30.
- Understand number order and know that larger numbers describe sets with more objects in them than smaller numbers.
- Count, read, and write whole numbers to 20.
- Compare numbers within 20.
- Use place-value models to represent numbers to 100.
- Read, write in words, standard, and expanded notation, and identify place values of digits for numbers within 100.
- Count and identify 1 more than, 1 less than, 10 more than, 10 less than a number within 100.
- Compare numbers within 100 and use the symbols  $<$ ,  $+$ ,  $>$ .
- Make reasonable estimates when comparing numbers and sets of objects within 100.
- Describe and extend regular number patterns within 100, including counting by 2's and 20's.

## Addition and Subtraction of Whole Numbers

- Understand number bonds and part-whole concept.
- Understand the meaning of addition (missing whole, putting together, counting on, and simple SU addition stories)
- Understand the meaning of subtraction (missing part, taking away, counting back, and simple SU subtraction stories)
- Add/Subtract numbers within 20.
- Use inverse relationship between addition and subtraction.
- Learn addition and subtraction facts within 20.
- Compare numbers by using subtraction to find the difference.
- Add/Subtract numbers within 100.
- Count by 2's, and 5's within 100.
- Count by 10's within 100.
- Find the sum of three 1-digit numbers.

## Multiplication and Division of Whole Numbers

- Use repeated addition and arrays to solve multiplication problems within 40.
- Use sharing and grouping to divide.

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- Recognize and extend regular linear patterns.

## Mental Math Strategies

- Use the commutative and associative properties to perform mental calculations and check results.
- Add 1-digit numbers involving renaming (e.g.  $7 + 5$ ) by making a ten.
- Subtract 1-digit numbers involving renaming (e.g.  $14 - 8$ ) by subtracting from a ten.

## Fractions

- Recognize and name halves and fourths.

## Money

- Identify and know the value of coins and use the cent symbol.
- Identify and know the value of bills and use the dollar symbol.
- Count combinations of coins.
- Count combinations of bills.

## Time

- Tell time to the half-hour (analog clock face)
- Relate time to events

## Length, Mass & Capacity

- Compare and measure length and weight by making direct comparisons with reference objects.
- Compare and measure capacity by making direct comparisons with reference objects
- Compare and measure length, and weight using nonstandard units.
- Compare and measure capacity using nonstandard units.

## Geometry

- Give and follow directions about location.
- Arrange and describe objects in space by proximity, position, and direction
- Identify, describe, and categorize common 2- dimensional shapes, including the faces of 3- dimensional objects.
- Identify common 2-dimensional shapes within compound shapes, combine shapes to form common shapes.
- Describe and extend repeating patterns involving color and shapes.

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## Word Problems

- Make addition/subtraction stories from problem situations.
- Write equations and solve simple addition/subtraction stories.
- Solve simple multiplication/division problems using objects and pictures
- Write equations and solve one-step word problems involving addition/subtraction.

## Data Analysis and Probability

- Sort objects and data by common attributes.
- Represent and compare data using picture graphs
- Represent and compare data bar graphs.
- Represent and compare data using tally charts.

## Algebra

- Solve problems involving numeric equations or inequalities.
- Select appropriate operational symbol to make an expression true.
- Use boxes and other symbols to stand for unknown numbers in expressions and equations.