

1st Quarter

Grade 4 Singapore Math

Unit 1: Whole Numbers to 100,000 (Number Sense, Properties, and Operations)

Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.

Week	Objectives	Students' Performance Indicators	SA	TA
1	Read and write numbers up to 100,000. Relate each digit number to its place value.	✓ I can read numbers up to 100,000. Relate each digit number to its place value.		
		✓ I can write numbers up to 100,000. Relate each digit number to its place value.		
		✓ I can relate each digit in a 6-digit number to its place value.		
	Compare and order 2 multi digit whole numbers based on the meanings of the hundreds, tens, and ones digits, and use the symbols $>$, $=$, and $<$ to record the results of comparisons.	✓ I can use the symbols for comparing two numbers or quantities: Greater than $>$, less than $<$, or equal to $=$.		
		✓ I can compare 2 multi digit whole numbers.		
		✓ I can order multi digit whole numbers from greatest to least or from least to greatest		
2	Round whole numbers to the nearest ten, hundred, thousand, and ten thousand	✓ I can round whole numbers to the nearest ten, hundred, thousand, and ten thousand		
	Estimate the answers in addition and subtraction.	✓ I can estimate the answers in addition and subtraction.		
	Unit 2: Factors and Multiples (Number Sense, Properties, and Operation)			
	Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.			
	Determine if a 1-digit number is a factor of a given whole number. Find all the factors of a whole number within 100.	✓ I can determine if a 1-digit number is a factor of a given whole number.		
		✓ I can find all the factors of a whole number within 100.		
3	Learn the rules of divisibility for 2,3,5,6,9, and 10.	✓ I can learn the rules of divisibility for 2,3,5,6,9, and 10.		
	Relate factors to multiples. List the multiples of a 1-digit number. Relate divisibility rules to multiples.	✓ I can understand multiples.		
		✓ I can relate factors to multiples.		
		✓ I can list the multiples of a 1 digit number.		
		✓ I can relate divisibility rules to multiples.		
	Unit 3: Multiplication and Division of Whole Numbers			
3	Standard 3: Demonstrate fluency in computations and make reasonable estimates.			
	Multiply a whole number of up to 4-digit by 1-digit whole number.	✓ I can multiply a whole number of up to 4-digit by 1-digit whole number.		
	Divide a whole number of up to 4-digit by 1-digit whole number.	✓ I can divide a whole number of up to 4-digit by 1-digit whole number.		
	Estimate the product and quotient.	✓ I can estimate the product and quotient.		

	Multiply or divide to solve word problems involving multiplication comparison, as different from additive comparison.	✓ I can multiply to solve word problems involving multiplication comparison, as different from additive comparison.		
		✓ I can divide to solve word problems.		
	Unit 3 : Adding and Subtracting Fractions (Number Sense, Properties, and Operation)			
	Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.			
Week	Objectives	Students' Performance Indicators	SA	TA
4	Use principle of why a fraction a/b is equivalent to fraction $(n \times a) / (n \times b)$ to recognize and generate sets of equivalent fractions when the first element of a set is either a unit fraction or not a unit fraction.	✓ I can recognize and generate sets of equivalent fractions when the first element of a set is either a unit fraction or not a unit fraction.		
	Use the symbols $>$, $<$, or $=$ in comparing two fractions with different numerators but the same denominators, and use visual fraction model to justify conclusion.	✓ I can compare fractions using the symbols for greater than $>$, less than $<$, and equal to $=$.		
	Express a fraction with denominator 10 as an equivalent fraction with denominator 100.	✓ I can express a fraction with denominator 10 as an equivalent fraction with denominator 100		
5	Unit 3: Adding and Subtracting Fractions (Number Sense, Properties, and Operation)			
	Standard 3: Demonstrate fluency in computations and make reasonable estimates.			
	Add or subtract like and related fractions.	✓ I can add like and related fractions.		
		✓ I can subtract like and related fractions		
	Solve word problems involving addition or subtraction of fractions.	✓ I can solve word problems involving addition or subtraction of fractions.		
6	Convert between mixed numbers and improper fractions.	✓ I can convert between mixed numbers and improper fractions.		
	Add and subtract fractions involving mixed numbers and improper fractions.	✓ I can add fractions involving mixed numbers and improper fractions.		
		✓ I can subtract fractions involving mixed numbers and improper fractions		

End of 1st Quarter

2nd Quarter
Grade 4 Singapore Math

Unit 3: Adding and Subtracting Fractions (Number Sense, Properties, and Operation)				
Standard 3: Demonstrate fluency in computations and make reasonable estimates.				
Week	Objectives	Students' Performance Indicators	SA	TA
1	Understand a fraction of a set of object.	✓ I can understand a fraction of a set of objects.		
	Find the number of objects in a fraction of a set.	✓ I can find the number of objects in a fraction of a set.		
	Multiply fractions by a whole number.	✓ I can multiply fractions by a whole number.		
2	Determine the whole from the value of a fractional part of the whole.	✓ Determine the whole from the value of a fractional part of the whole.		
	Find the whole when given the fractional part.	✓ Find the whole when given the fractional part.		
	Solve two-step word problems involving fractions of a set.	✓ Solve two-step word problems involving fractions of a set.		
Unit 4: Tables and Graphs				
Standard 8: Demonstrate understanding in formulating questions that can be addressed with data, and developing and evaluating inferences and predictions that are based on data.				
3	Read and interpret data presented in a table and bar graph.	✓ I can read and interpret data presented in a table and bar graph.		
	Construct a bar graph from data given in a table.	✓ I can construct a bar graph from data given in a table.		
	Solve problems using data given in a bar graph.	✓ I can solve problems using data given in a bar graph.		
	Collect and present data in a table and bar graph.	✓ I can collect and present data in a table and bar graph.		
Unit 5: Angles (Measuring Angles) Spatial Sense and Geometry				
Standard 7: Demonstrate understanding in analyzing geometric situations, characteristics and properties of geometric shapes and space, and develop mathematical arguments about geometric relationships.				
4	Understand the use of degrees for measuring angles.	✓ I can understand the use of degrees for measuring angles.		
	Recognize right angles as 90°	✓ I can recognize right angles as 90°		
	Estimate and measure angles less than 180°.	✓ I can estimate and measure angles less than 180°.		
	Construct angles less than 180°.	✓ I can construct angles less than 180°.		
5	Recognize angles of 180°, 270°, and 360°.	✓ I can recognize angles of 180°, 270°, and 360°.		
	Estimate and measure angles greater than 180°.	✓ I can estimate and measure angles greater than 180°.		
	Construct angles greater than 180°.	✓ I can construct angles greater than 180°.		
	Find the unknown (complementary or supplementary) angles.	✓ I can find the unknown (complementary or supplementary) angles.		

Unit 7: Area and Perimeter (Unit System and Measurement)				
Standard 4: Demonstrate understanding of units, systems, processes of measurement, and measurable attributes of objects.				
6	Review area and perimeter of a figure.	✓ I can solve area and perimeter of a figure.		
	Find one dimension of a rectangle given its perimeter.	✓ I can find one dimension of a rectangle given its perimeter.		
	Find one dimension of a rectangle given its area and the other dimension.	✓ I can find one dimension of a rectangle given its area and the other dimension.		
	Find the perimeter of a figure made up of rectangles and squares.	✓ I can find the perimeter of a figure made up of rectangles and squares.		
7	Find the area of a figure made up of rectangles and squares,	✓ I can find the area of a figure made up of rectangles and squares,		
	Find the area of path around a rectangle.	✓ I can find the area of path around a rectangle.		

End of 2nd Quarter

3rd Quarter
Grade 4 Singapore Math

Unit 1: Decimals (Number Sense, Properties, and Operation)				
Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.				
Week	Objectives	Students' Performance Indicators	SA	TA
1	Read and write decimal numbers of up to 3 places.	✓ I can read and write decimal numbers of up to 3 places.		
	Locate decimals on a number line.	✓ I can locate decimals on a number line.		
	Compare and order decimals and simple fractions.	✓ I can compare and order decimals and simple fractions.		
	Relate money in dollars and cents to decimals.	✓ I can relate money in dollars and cents to decimals.		
	Convert a decimal number to a fraction.	✓ I can convert a decimal number to a fraction.		
	Convert a fraction with a denominator that is a factor of 100 to a decimal.	✓ I can convert a fraction with a denominator that is a factor of 100 to a decimal.		
	Round decimals to the nearest whole number of tenth.	✓ I can round decimals to the nearest whole number of tenth.		
Unit 2: The Four Operations of Decimals (Number Sense, Properties, and Operation)				
Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.				
2	Add tenths or hundredths.	✓ I can add tenths or hundredths.		
	Add 1-place decimals.	✓ I can add 1-place decimals.		
	Add 2-place decimals.	✓ I can add 2-place decimals.		
	Estimate the sum for decimals.	✓ I can estimate the sum for decimals.		
	Subtract tenths.	✓ I can subtract tenths.		
	Subtract 1-place decimals.	✓ I can subtract 1-place decimals.		
	Subtract 2-place decimals.	✓ I can subtract 2-place decimals.		
3	Estimate the difference for decimals.	✓ I can estimate the difference for decimals.		
	Subtract hundredths.	✓ I can subtract hundredths.		
	Use mental math to add or subtract decimals close to a whole.	✓ I can use mental math to add or subtract decimals close to a whole.		
4	Solve word problems involving addition and subtraction of decimals.	✓ I can solve word problems involving addition and subtraction of decimals.		
	Multiply tenths.	✓ I can multiply tenths.		
	Multiply 1-place decimals by a whole number.	✓ I can multiply 1-place decimals by a whole number.		
	Multiply 2-place decimals by a whole number.	✓ I can multiply 2-place decimals by a whole number.		
	Solve word problems involving multiplication of decimals.	✓ I can solve word problems involving multiplication of decimals.		

5	Divide decimals using division facts.	✓ I can divide decimals using division facts.		
	Divide 2 place decimals by 1- digit whole number where the quotient is less than 1.	✓ I can divide 2 place decimals by 1- digit whole number where the quotient is less than 1.		
	Divide 2-place decimals by a 1-digit whole number.	✓ I can divide 2-place decimals by a 1-digit whole number.		
6	Divide decimals by adding decimal places when there is a remainder.	✓ I can divide decimals by adding decimal places when there is a remainder.		
	Estimate the quotient to one decimal place.	✓ I can estimate the quotient to one decimal place.		
	Solve word problems involving division of decimals.	✓ I can solve word problems involving division of decimals.		

End of 3rd Quarter

4th Quarter Grade 4 Singapore Math

Unit 3: Measures (Number Sense, Properties, and Operation)				
Standard 1: Demonstrate understanding of numbers, ways of representing numbers, relationships among numbers, and numbers system.				
Week	Objectives	Students' Performance Indicators	SA	TA
1	Review conversion of measurements.	✓ I know the conversion of measurements.		
	Review expressing measurements in compound units.	✓ I know how to express measurements in compound units.		
	Review addition of compound units.	✓ I know the addition of compound units.		
	Review subtraction of compound units.	✓ I know the subtraction of compound units.		
	Multiply compound units by 1-digit whole numbers.	✓ I can multiply compound units by 1-digit whole numbers.		
2	Solve word problems.	✓ I can solve word problems.		
	Divide compound units by 1 -digit whole numbers.	✓ I can divide compound units by 1 -digit whole numbers.		
	Solve word problems.	✓ I can solve word problems.		
Unit 5: Identifying Solid Figures				
Standard 5: Demonstrate competency in applying appropriate principles, techniques, tools, and formulas in determining measurements.				
3	Interpret 2-dimensional drawings of unit cubes.	✓ I can interpret 2-dimensional drawings of unit cubes.		
	Determine the number of unit cubes used to make a solid.	✓ I can determine the number of unit cubes used to make a solid.		
	Build solids from models drawn on isometric dot paper.	✓ I can build solids from models drawn on isometric dot paper.		
	Visualize new solids formed by adding or removing cubes.	✓ I can visualize new solids formed by adding or removing cubes.		
Unit 6: Volume				
Standard 5: Demonstrate competency in applying appropriate principles, techniques, tools, and formulas in determining measurements.				
5	Find the volume of a solid in cubic centimeters.	✓ Find the volume of a solid in cubic centimeters.		
	Understand the cubic centimeter as a unit of volume.	✓ Understand the cubic centimeter as a unit of volume.		
	Find the volume of a solid in cubic centimeters.	✓ Find the volume of a solid in cubic centimeters.		
6	Learn other units of volume and compare relative sizes.	✓ Learn other units of volume and compare relative sizes.		
	Use a formula to find the volume of a cuboid.	✓ Use a formula to find the volume of a cuboid.		
	Convert between cubic centimeters and liters.	✓ Convert between cubic centimeters and liters.		

End 4th Quarter