SIXCLOUDS

Singapore Maths Innovative Learning Experience (SMILE Singapore)

Primary 4 Content List

Primary 4

Take a leap of confidence into Primary Four with our colourful introduction to word problems. Your child learns how to identify word problems and navigate tricky problems. We will share useful heuristics problem-solving concepts like Working Backwards, Constant Total and more. Strengthen foundation through practices and examples on Fractions, as well as breeze through concepts on Area, Angles, Decimals, Statistics and Time.

Content List

Title	Synopsis
Lesson 1	Comparing and ordering numbers up to 100,000.
Lesson 2	Identifying number patterns.
Lesson 3	Rounding off numbers to the nearest 10, 100 or 1000.
Worksheet 1	Homework for Lessons 1 to 3.
Quiz 1	Recap of Lessons 1 to 3.
Lesson 4	What is a factor and a multiple?
Lesson 5	Learn about factors and common factors. Using common factors to simplify fractions.
Lesson 6	Learn about multiples and common multiples. Using the lowest common multiple to find a common denominator.
Worksheet 2	Homework for Lessons 4 to 6.
Lesson 7	Multiplying a 4-digit number by a 1-digit number; and a 3-digit number by a 2-
	digit number.
Worksheet 3	Homework for Lesson 7.
Lesson 8	Dividing a 4-digit number by a 1-digit number.
Worksheet 4	Homework for Lesson 8.
Quiz 2	Recap of Lessons 4 to 8.
Lesson 9	Solving a word problem using concept of elimination and common multiples.
Lesson 10	Using "Constant difference" concept to solve a word problem.
Lesson 11	Using "Constant difference" concept to solve a word problem.
Lesson 12	Practice using "Constant difference" concept to solve a word problem.
Worksheet 5	Homework for Lessons 9 to 12.
Lesson 13	Using "Working backwards" concept to solve a word problem.
Lesson 14	Using "Working backwards" concept to solve a word problem.
Lesson 15	Practice using "Working backwards" concept to solve a word problem.

Worksheet 6Homework for Lessons 13 to 15.Lesson 16Using "Guess and check with assumption" concept to solve a word problem.Lesson 17Using "Guess and check" with assumption" concept to solve a word problem.Lesson 18Using "Guess and check" with assumptions to solve a word problem.Lesson 19Practice using "Guess and check" with assumptions to solve a word problem.Worksheet 7Homework for Lessons 16 to 19.Quiz 3Recap of Lessons 9 to 19.Lesson 20Using "Constant total" concept to solve a word problem.Lesson 21Using "Constant total" concept to solve a word problem.Lesson 22Practice using "Constant total" concept to solve a word problem.Lesson 23Using "Constant total" concept to solve a word problem.Worksheet 8Homework for Lessons 20 to 22.Lesson 24Using "Constant part" concept to solve a word problem.Lesson 25Practice using "Constant part" concept to solve a word problem.Worksheet 9Homework for Lessons 23 to 25.Lesson 26Using "Total changed" concept to solve a word problem.Lesson 28Practice using "Total changed" concept to solve a word problem.Worksheet 10Homework for Lessons 26 to 28.Quiz 4Recap of Lessons 20 to 28.Lesson 29Using "Excess-shortage" concept to solve a word problem.Lesson 30Using "Excess-shortage" concept to solve a word problem.Lesson 31Practice using "Excess-shortage" concept to solve a word problem.Lesson 31Practice using "Excess-shortage" concept to solve a word problem.
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Lesson 32 Using "Excess-excess" concept to solve a word problem.
Lesson 33 Practice using "Excess-excess" concept to solve a word problem.
Worksheet 12 Homework for Lessons 32 and 33.
Lesson 34 Using "Shortage-shortage" concept to solve a word problem.
Lesson 35 Practice using "Shortage-shortage" concept to solve a word problem.
Worksheet 13 Homework for Lessons 34 and 35.
Quiz 5 Recap of Lessons 29 to 35.
Lesson 36 Using simultaneous concept to solve a word problem.
Lesson 37 Practice using simultaneous concept to solve a word problem.
Worksheet 14 Homework for Lessons 36 and 37.
Quiz 6 Recap of Lessons 36 and 37.
Lesson 38 Summary on comparing, ordering, rounding off numbers, finding factors and
multiples.
Lesson 39 Summary on multiplication, division and identifying the type of concept to use t
solve word problems.

Money

Title	Synopsis
Lesson 1	Solving word problems involving the four operations of money.
Lesson 2	Solving word problems involving the four operations of money in decimal notation.
Lesson 3	Multiplication and division of money in decimal notation.

Angles

Title	Synopsis
Lesson 1	Learn more about angles.
Lesson 2	Measuring angles and drawing an angle of a given size.
Worksheet 1	Homework for Lessons 1 and 2.
Lesson 3	Learn what a complete turn, quarter turn and a half turn are using a 8-point
	compass.
Lesson 4	Drawing perpendicular and parallel lines.
Worksheet 2	Homework for Lessons 3 and 4.
Quiz 1	Recap of Lessons 1 to 4.

Area

Title	Synopsis
Lesson 1	Finding a dimension of a rectangle or a square given its area or perimeter.
Lesson 2	Finding area of a composite figure made up of rectangles and squares.
Lesson 3	Solving problems on area and perimeter of composite figures made up of rectangles and squares.
Lesson 4	Practice solving problems on area and perimeter of composite figures made up of rectangles and squares.
Worksheet 1	Homework for Lessons 1 to 4.
Quiz 1	Recap of Lessons 1 to 4.

Decimals

Title	Synopsis
Lesson 1	Learn about decimals.
Lesson 2	Converting a fraction to a decimal.
Lesson 3	Practice converting a decimal to a fraction.
Lesson 4	Rounding off decimals to the nearest whole number, 1-decimal place or 2-
	decimal places.
Worksheet 1	Homework for Lessons 1 to 4.
Quiz 1	Recap of Lessons 1 to 4.
Lesson 5	Adding and subtracting of decimals.
Worksheet 2	Homework for Lesson 5
Lesson 6	Multiplying a decimal by a whole number (up to 2-digits).
Lesson 7	Dividing a decimal (up to 2 decimal places) by a whole number (1-digit).
Worksheet 3	Homework for Lessons 6 and 7.
Quiz 2	Recap of Lessons 5 to 7.
Lesson 8	Solving a word problem with models involving decimals.
Lesson 9	Solving word problems with the four operations.

Fractions

Title	Synopsis
Lesson 1	Identifying mixed numbers and improper fractions.
Lesson 2	Converting mixed numbers to improper fractions and vice versa.
Worksheet 1	Homework for Lessons 1 and 2.
Lesson 3	Finding a fraction of a set of given quantities.
Worksheet 2	Homework for Lesson 3.
Lesson 4	Find the whole given its fractional part by finding one unit.
Lesson 5	Summary of converting mixed numbers to improper fractions and vice versa and
Lesson 5	finding a fraction of a set of given quantities.
Lesson 6	Adding and subtracting fractions of different denominators.
Worksheet 3	Homework for Lessons 4 to 6.
Lesson 7	Finding the fraction of a whole number.
Lesson 8	Practice solving word problems with fractions.
Worksheet 4	Homework for Lessons 7 and 8.
Lesson 9	Solving word problems with fractions. Finding the remainder of a whole.
Lesson 10	Practice solving word problems with fractions and finding the remainder of a whole.
Worksheet 5	Homework for Lessons 9 and 10.
Lesson 11	Summary on finding fractions of a whole number with remainder and solving word problem with fractions.
Quiz 1	Recap of Lessons 1 to 11.

Statistics

Title	Synopsis
Lesson 1	Reading and interpreting data from a table.
Lesson 2	Solving problems using information present in tables.
Lesson 3	Completing a table from given data.
Worksheet 1	Homework for Lessons 1 to 3.
Lesson 4	Reading and interpreting data from line graphs.
Lesson 5	Reading and interpreting data from line graphs.
Lesson 6	Reading and interpreting data from line graphs.
Worksheet 2	Homework for Lessons 4 to 6.
Quiz 1	Recap of Lessons 1 to 6.

Symmetry

Title	Synopsis
Lesson 1	Identifying symmetric figures. Determining lines of symmetry. Completing a symmetric figure with respect to a given line of symmetry on a square grid.
Worksheet 1	Homework for Lesson 1.
Quiz 1	Recap of Lesson 1

Time

Title	Synopsis
Lesson 1	Reading digital and analogue time in and up to seconds.
Lesson 2	Reading and writing time in 24-hour clock format.
Worksheet 1	Homework for Lessons 1 and 2.
Lesson 3	Understand the relationship between "Starting time", "Finishing time" and "Duration".
Lesson 4	Practice solving word problems on time.
Worksheet 2	Homework for Lessons 3 and 4.
Quiz 1	Recap of Lessons 1 to 4.