Math Learning in the Classroom

Math learning occurs in many ways in the classroom. Teachers observe students during daily work, have conversations with students about math ideas and look at the results of their math work.

If you have questions about math in the classroom or if your child needs additional support, please contact your child's teacher.



Online Resources for Grade 4 Math Students

These sites were active at the time of publication. Please review them to determine if they are appropriate for your child's needs and interests.

- NRICH math interactive tasks and games for all grade levels: https://nrich.maths.org
- Cool Math 4 Kids puzzles, games and much more: www.coolmath4kids.com
- Mathpickle original math puzzles, games and problems: http://mathpickle.com

Building Math Success





Be Positive and Supportive

Celebrate success and build confidence. Everyone uses math!

- Show and talk about how math is part of daily life.
- Be relaxed when talking about math, whether that is during homework time or in conversation.
- Encourage your child to keep trying,
 even if the problem seems hard at first.
- Focus on how your child is working on math problems and comment on good understanding.

The goal of this document is to support parents and caregivers as they promote positive math thinking. It also provides an overview of what Saskatchewan students will be taught in school in Grade 4.

Make Math Real at Home

- Discuss how math is part of everyday activities, such as sports, music and art.
- Look for ways to help your child use math skills while cooking, shopping or measuring.
- Comment on and discuss the meaning of charts and graphs that you may see online or in the news.
- Practice your own estimation skills along with your child as you estimate amounts, measurements or calculations.
- Talk about math in the weather, such as precipitation amounts, wind speeds and temperatures.
- Play card games, chess, checkers, Mancala,
 Tri-Ominos, Qwirkle and do puzzles such as
 Sudoku or Pentominos.





To view the entire Saskatchewan curriculum, go to www.curriculum.gov.sk.ca.

saskatchewan.ca



Overview of Grade 4 Math

- Compare, order, read and understand the value of digits in numbers up to 10 000.
 - o 10000 is 10 groups of 1000, 100 groups of 100 and also 1000 groups of 10.
 - The number 5321 is read as "five thousand three hundred twenty-one."
 - \circ 673 = 600 + 70 + 3
- o "I know the number 761 is a larger number than 671, because in 761 the '7' represents 7 hundreds, and in 671 there are 6 hundreds, and the '7' represents 7 tens."
- Add and subtract numbers (up to 10 000) and decimals (tenths and hundredths).

2354 - 999 = ?		\$7.00 + \$3.95 = ?	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I could think, "1000 is just one more than 999. 2354 – 1000 is 1354, and	\$7.00 + \$3.95 \$10.95	I could think, "\$3.95 is 5 cents less than \$4.00, so the answer will be 5 cents less than \$7 + \$4, which is
	then I can add 1 to get 1355."		\$11, so the answer is \$10.95."

• Multiply numbers (1, 2 and 3 digits by 1 digit) and solve multiplication problems.

18 x 5 = ?		101 x 6 = ?		
	⁴ 18	I could use the "half and	101	I could think "I know that
	× 5	double" strategy. Half of 18 is	× <u>6</u>	100 x 6 is 600, and I just need to
	90	9, and the double of 5 is 10.	606	add 6 more, so the answer is
		$18 \times 5 = 10 \times 9$, which is 90.		606."

- Divide 2 digit numbers by 1 digit numbers with or without remainders. Understand the relationship between multiplication and division.
 - o "If I divide 52 into 5 groups, I will have 5 groups of ten, with 2 left over."
 - When solving $64 \div 8$, think $8 \times \square = 64$.

NUMBER

- Compare and put in order fractions between 0 and 1. 0 $\frac{1}{3}$ $\frac{1}{2}$ $\frac{3}{4}$
- Understand that the same fraction can represent different amounts, depending on the size of the whole.
 - \circ $\frac{1}{4}$ of a small apple is not the same amount as $\frac{1}{4}$ of a large apple.
 - \circ $\frac{1}{2}$ of a group of 6 blocks is not the same quantity as $\frac{1}{2}$ of a group of 16 blocks.
- Understand how decimals relate to whole numbers and fractions.
 - Like a fraction, a decimal is part of a whole.
 - o 0.7 is $\frac{7}{10}$ which is read as "seven tenths."
 - 0.54 is $\frac{54}{100}$ which is read as "fifty four hundredths."
- Add and subtract decimals (tenths and hundredths).
 - Solve problems such as, "How much money would you get back if an item cost \$5.85 and you paid with a five-dollar bill and one loonie?"

PATTERNS AND RELATIONS

SPACE

SHAPE AND

- Decribe patterns in a chart, table or diagram.
 - If the pattern in this chart continues, how many pets will four families have?
 - Write a rule for the pattern: 2, 5, 8, 11, 14, 17, 20, 23, 26.
- Identify the sorting rule for a Venn diagram.

11011100101	
families	pets
1	2
2	4
3	6
4	?

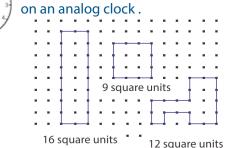
Number of Number of

	27	12	8	
Numbers	33	(22)	6)
greater than 20	45	16	18	Even numbers

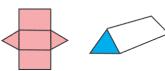
• Explain that a symbol in an equation (such as a triangle or square) represents an unknown number.

$$\Delta \div 4 = 24$$
 $9 \times \square = 108$

- Read and record time, including 24 hour clocks.
 - o 8:30 P.M. is 20:30 on a 24-hr clock, and looks like this
- Write calendar dates in a variety of ways.
 - 2020/07/16 → 16/07/2020 → July 16, 2020
- Understand area of two-dimensional (flat) shapes (rectangles, squares, and irregular shapes).



- Create rectangles with a given area. Show that different rectangles can have the same area.
- Find the area of rectangles using cm² (square centimetres) or m² (square metres).



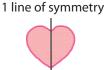




Triangular prism

Rectangular prism

• Identify and create symmetrical shapes and draw or fold lines of symmetry.



4 lines of symmetry

No lines of symmetry

• Organize data and create bar graphs and pictographs, including many-to-one correspondence.

