## Be Positive and Supportive

When you talk about math ideas and show how math is part of daily life, you are showing how math is important You can encourage your child to think positively and be persistent as you work together to build math confidence and math understanding.


## Online Resources for Grade 6 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
- Math is Fun - games, puzzles, a math dictionary and more: www.mathsisfun.com
- Mathpickle - original math puzzles, games and problems: http://mathpickle.com


## Make Math Real at Home

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 6.

- Discuss how math is part of everyday activities, such as sports, music and art.
- Comment on and discuss the meaning of charts and graphs that you may see online or in the news.
- Discuss how we use positive and negative numbers when talking about temperatures.
- Calculate the cost of items you use in your home. For example, if you buy 5 cans of soup for $\$ 7.00$, how much does one can cost?
- When playing games that involve drawing a card or rolling a die, talk about the probability of drawing a particular card or rolling a specific number.
- Interpret and compare sports statistics


## Overview of Grade 6 Math

- $\$ 1.8$ billion is $\$ 1800000000$.
- Understand that a prime number is a number that cannot be divided by any number except itself and 1 . - $2,5,7,11$ and 13 are examples of prime numbers.
Determine factors (numbers that divide into) and multiples of numbers less than 100.
- The factors of 24 are $1,2,3,4,6,8,12$ and 24 .
- Multiples of 12 less than 100 are $12,24,36,48,60,72,84$ and 96 .
Understand the order of operations: brackets, multiplication and division, addition and subtraction.
- $18+4 \times 2=26 \quad 25 \div(9-4)=5$
Multiply and divide whole numbers and decimals. Verify the correct decimal placement.
- "If I multiply 2.163 by 8,1 know the answer will be close to 16 , so the decimal will be after the 16.
- "If I divide 3.962 by 8,1 know the answer will be close to $\frac{1}{2}$ or 0.5 , so the decimal will be after the 0 ." Understand percent, and relate fractions, decimals and percents (up to 100).
$\square$ D $\quad \frac{6}{12}$ of the boxes are shaded. $\frac{6}{12}=\frac{1}{2}$; and, $\frac{1}{2}=0.50=50 \%$
Compare and put in order positive and negative integers (using <,> or =), and place integers on a number line.

Understand fractions, including improper fractions and mixed numbers.
- The circles represent $\frac{19}{8}$ which is the same as $2 \frac{3}{8}$.

Understand part-to-part ratios and part-to-whole ratios.
- The ratio of squares to circles is 5:3 (part to part ratio).

The ratio of squares to total shapes 5:8 (part to whole ratio).
- Create tables of values, understand the pattern, and graph the results.

| Input | Output |
| :---: | :---: |
| 1 | 5 |
| 2 | 8 |
| 3 | 11 |
| 4 | 14 |

As the input increases by 1 , the output increases by 3 .
Model and explain equality, and making equations equal.

- What value does "A" need to be to balance the scale?

still be equal."

STATISTICS AND PROBABILITY

- Understand, interpret and create line graphs and graphs of discrete data points.
- A line graph showing age and height is correct because there can be values between the plotted points.
Sandy's Height

| $\square$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 160 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| $E^{120}$ |  |  |  |  |  |  |  |  |  |  |
| 管80- |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 2 | 4 |  | 68 | 10 |  |  |  |  |  |
|  | 2 |  |  | ${ }_{\text {Age }}{ }^{\text {enears }}$ | 10 |  |  |  |  | 16 |
|  |  |  |  | Age (vears |  |  |  |  |  |  |

- A graph of dots is correct for showing values for ticket sales each day. A line graph would be incorrect because there are no "in-between" values.


