



5th Grade News

Ms. Balestreire & Ms. Nisson April 2018

Reading Skill Focus

RI.5.2 Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text

RI.5.3 Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.

Current PYP Unit

Unit: Sharing the planet

Central Idea: Humans affect the world around them.

Question to discuss with your child: What do different ecosystems look like? How does the Sun's energy

Upcoming Events

- April 2nd-Spring Break
- April 11 & 12- 2 Hour early dismissals/End of 3rd marking period
- April 17th- 2 hour early dismissal
- April 20th- Report cards go home

Math Standards and Strategies

In this unit, students will interpret numerical expressions. Students will create simple numerical expressions as well as create real-world situations to describe an expression. Throughout this unit students will begin to write the rules for order of operations. Allow students to reason about the order of operations through building, drawing, and solving problems in context. Make connections to properties of addition and multiplication. Avoid using mnemonic phrases like "Please Excuse My Dear Aunt Sally".

- **Things to TRY at home:**

Providing experiences for students to build and draw models to show their thinking.

5.OA.A.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

5.OA.A.2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.

Grade Level Website

<http://abalestreire.wixsite.com/southshore5>



Grade 5 Parent Newsletter

Unit 13 Representing Algebraic Thinking

Dear Parents,

In this unit, students will create simple numerical expressions as well as create real-world situations to describe an expression. Throughout this unit students will begin to write the rules for order of operations. Allow students to reason about the order of operations through building, drawing, and solving problems in context. Make connections to properties of addition and multiplication. Avoid using mnemonic phrases like "Please Excuse My Dear Aunt Sally".

Thank you for your support,
Ms. Nisson and Ms. Balestreire

Vocabulary

Expression – a group of numbers and symbols that shows a mathematical relationship

Evaluate – to find the value of an expression

Grouping Symbols – parentheses $()$, brackets $[]$, or braces $\{\}$; they group parts of an expression that should be evaluated before others.

Operations – students will use their understanding of addition, subtraction, multiplication, and division to create, interpret, and evaluate numerical expressions containing all four operations and parentheses.

How can you help your child be successful in mathematics?

Important Concepts:

- solve expressions and equations including ones with grouping symbols
- solve problems and equations using the order of operations
- write numerical expressions based on words

Misconceptions:

- All multiplications are calculated before all division and that all addition is calculated before subtraction

Things to Do:

- Continue to have students build and draw models to show their thinking

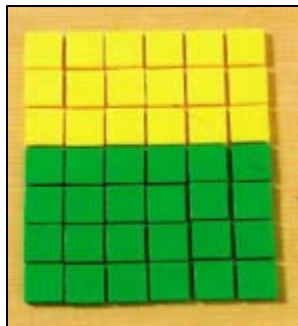
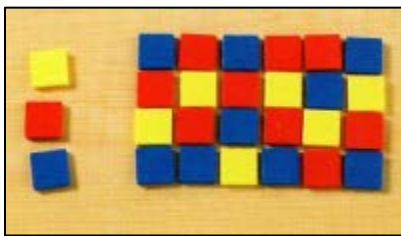


Strategies to Support Student Learning

Use colored tiles to build models representing the order of operations:

Taken from Hands-On Standards Common Core

Jay brought some juice boxes to soccer practice to share with his teammates. He had 3 single boxes and 4 multi-packs. There are 6 single boxes in each multi-pack. To determine how many boxes of juice Jay brought to practice, evaluate $3 + 4 \times 6$



These two figures show how the problem could be solved using a different order. Students will discover the need for the order of operations.

Below is a sample of what students will create throughout his unit.

Order of Operations

<u>Grouping Symbols</u> {, [], {}	$8 + (3+1) \times 2$
<u>Multiplication and/or Division</u> Left \rightarrow Right	$8 + 4 \times 2$
<u>Addition and/or Subtraction</u> Left \rightarrow Right	$8 + 8$
	16



Games to Support Home-to-School Connection

Ready® Center Activity 5.2 ★★

CCSS.5.OA.A.1

Make It True

What You Need

- Recording Sheet



Check Understanding

Insert parentheses to make the equation true.

$$24 \div 6 \times 2 = 2$$

What You Do

1. Take turns. Pick an equation on the **Recording Sheet**.
2. Tell where to put parentheses to make the equation true.
3. Your partner checks your work by evaluating the equation.
4. If you are correct, write the grouping symbols on the **Recording Sheet** and write your initials in the box. If you are incorrect, your turn ends.
5. The first player to get 3 boxes in a row wins.

How can I make this equation true?

$$15 \div 3 + 2 = 3$$

I can use parentheses to show which operation to do first.

$$(15 \div 3) + 2 = 7$$

$$15 \div (3 + 2) = 3$$



Go Further!

Pick an equation on the **Recording Sheet**. Rewrite it with the parentheses in a different place and evaluate. Continue until you have found at least one equation with the same value no matter where you place the parentheses.



Ready® Center Activity 5.2 ★★ Recording Sheet

Partner A _____

Partner B _____

Make It True

$$2 \times 4 + 6 = 20$$

$$0.5 \times 24 + 2 = 13$$

$$13 - 2 + 5 = 6$$

$$12 - 2 + 4 = 6$$

$$4 \times 5 \div 5 = 4$$

$$\frac{1}{2} \times 10 - 4 = 3$$

$$32 \div 4 + 12 = 2$$

$$2 + 14 \times 0.5 = 9$$

$$24 \div 4 - 2 = 12$$

$$6.5 - 2.3 + 3.2 = 1$$

$$16 \div 4 \div 2 = 2$$

$$7 - 2 \times 0.3 = 1.5$$



Real World Connections

Incorporate some of the verbal expressions listed below to evaluate expressions in real world experiences.

Evaluating and Writing Expressions Activity

With your child, play a game called "Evaluate That Expression!"

- One person uses some of the math words in the box below to describe an expression in words and phrases.

sum	one less than	quotient
plus	product	difference
times	minus	divided by
triple	double	half



- The other person writes the expression using numbers and symbols. Remember to use parentheses if they are needed!
- Evaluate the expressions together. Take turns.
- Examples:
 - The sum of 8 and one less than 8. $[8 + (8 - 1)]$
 - Triple the difference of 5 and 2. $[3 \times (5 - 2)]$

12 divided by the difference of 8 and 6

$$12 \div (8 - 6)$$

That's 12 divided by 2, so the value of the expression is 6.

