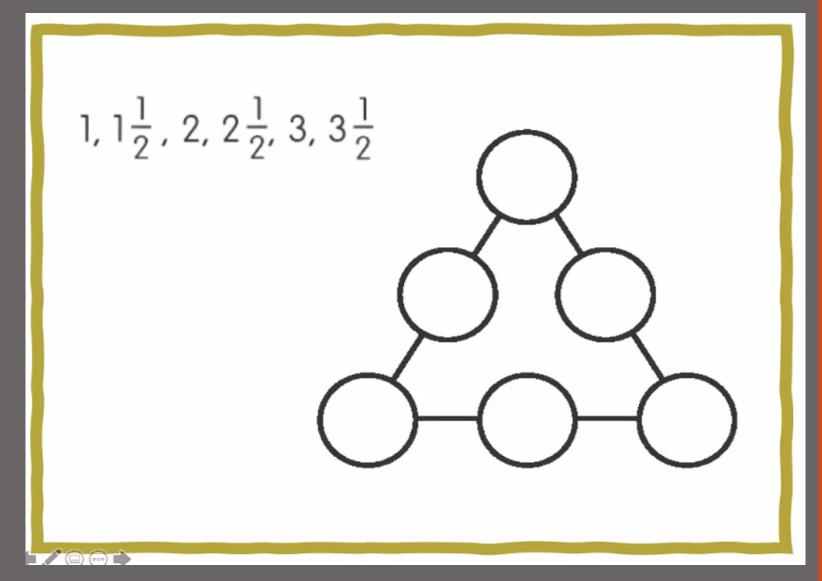
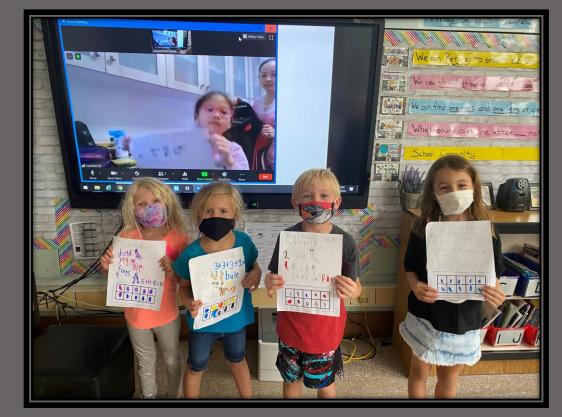
While You Wait...

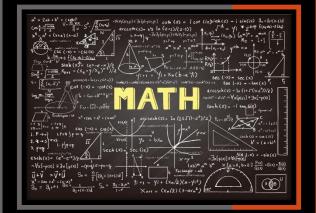
Using each value only once, try to arrange them so that each side of the triangle has a sum of 6.





Elementary Math Program Update

Lauren Tallarine, District Coordinator of Mathematics



Today's Program

- Welcome/Introduction
- •What does success look like in math?
- Responding to the Data/This year's focus
- Math Pathways

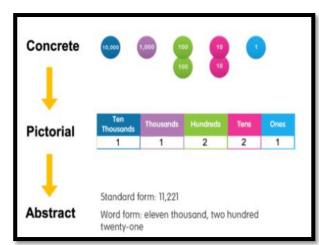
Introduction



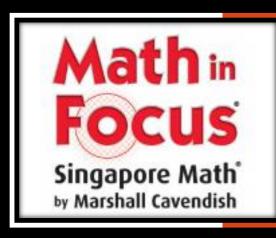
What does success look like?



- •Balanced understanding of the why and the how
- Number sense

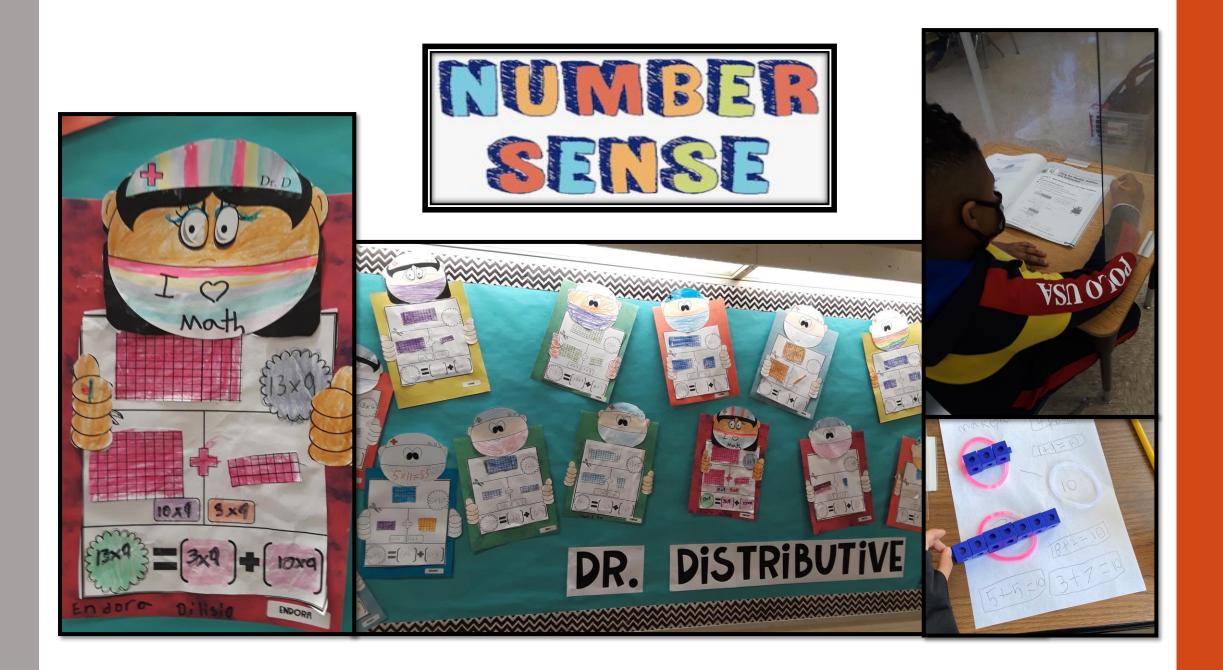






Balanced understanding of the why and the how

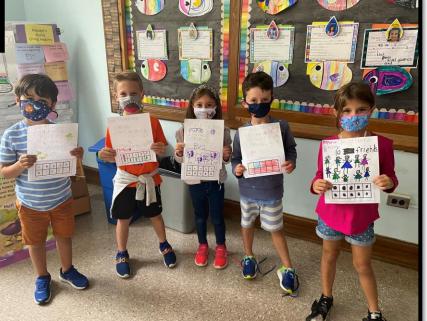




Early Number Sense







NWEA National Data

Nationally, NWEA observed a 5 – 10 percentile point decline in mathematics, compared to the same grade level, last year.

This national COVID slide was not as severe in reading.

Internal Data

- A comparison of grades K 3 classroom assessments from Fall 2019 and Fall 2020 revealed similar results in both years
- Grade 2 6 teachers reported some concerns about math fact fluency

Responding to the Data

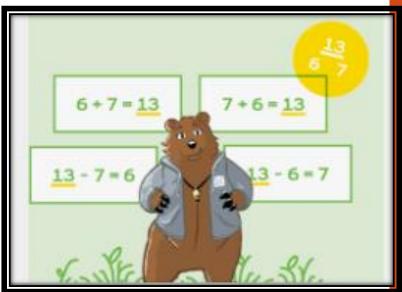
- Reflex Math
- Various Math in Focus Supports
- Math Specialists
- Summer Tier 3 Support Program
- Grade 5 Math Class Structure

Reflex Math Fluency Program

Uses a fact family approach

Incorporates real-time coaching

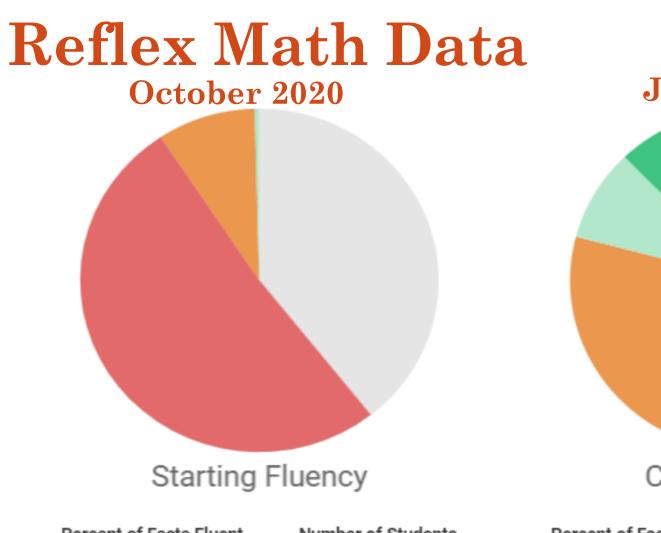
Built-in incentives

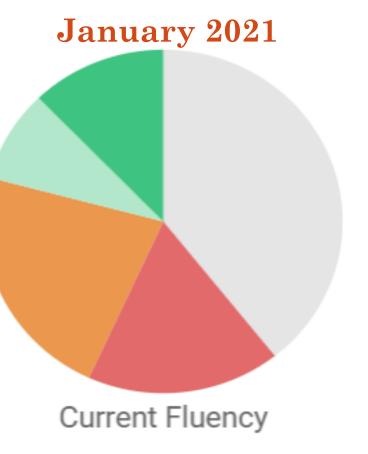


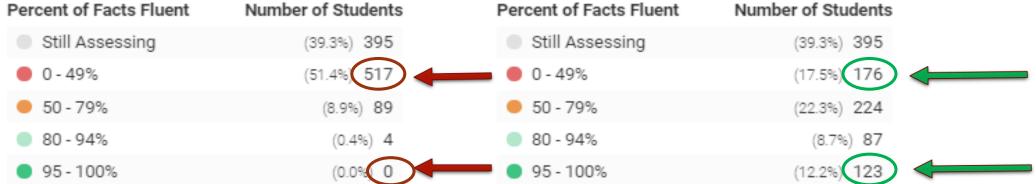


Reflex Math Data

Grades 2 – 5 students solved more than 2.25 MILLION math facts since October!

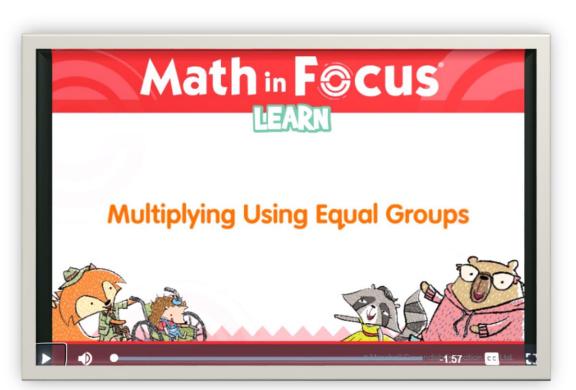






Math in Focus: Upgraded digital platform, Ed – Your Friend in Learning

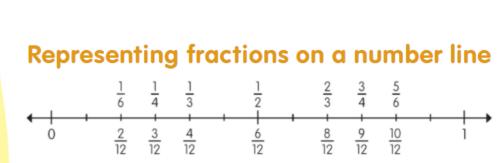
- Online student edition
- Learn Videos
- Text can be read aloud





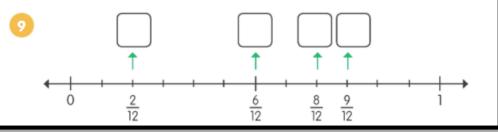


Math in Focus: Prior Knowledge Check-in



Quick Check

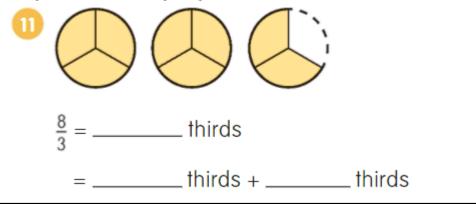
Fill in each blank with the correct equivalent fraction. Give your answer in simplest form.



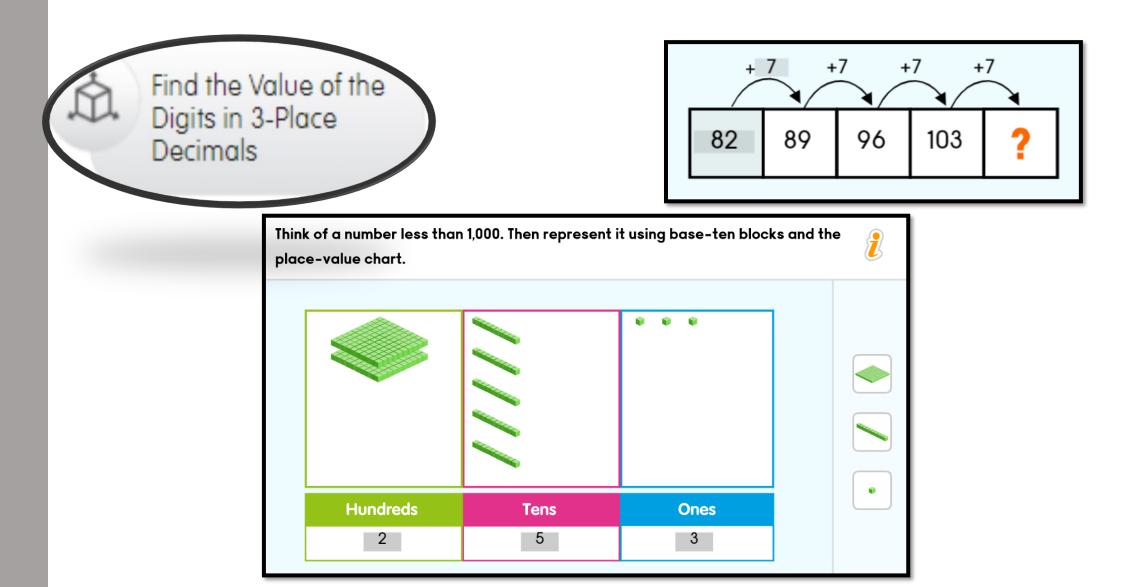


Quick Check

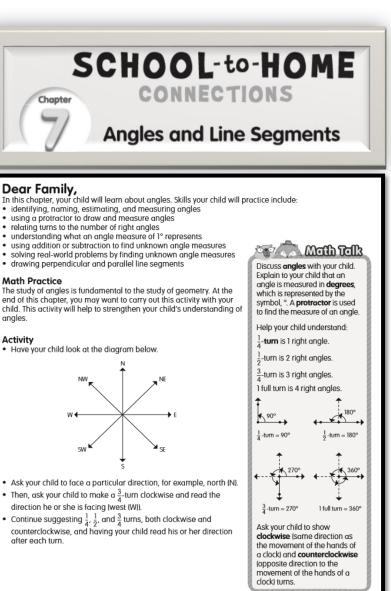
Express the improper fraction as a mixed number.



Math in Focus: Virtual Manipulatives



Math in Focus: School-to-Home Connections/Resources



SCHOOL-to-HOME

Shapes and Patterns

Dear Family,

Chapter

- In this chapter, your child will explore flat and solid shapes. Skills your child will practice include:
- identifying, classifying, and describing flat shapes
- identifying, classifying, and sorting solid shapes
- composing new shapes and models
- using shapes to identify, extend, and create patterns

Math Practice

At the end of this chapter, you may want to carry out these activities with your child. These activities will help to strengthen your child's understanding of flat and solid shapes.

Activity 1

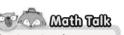
 Look for examples of rectangular prisms, cubes, and cylinders in your food cupboard. Sort the objects by their shapes.

Activity 2

 Visit a library and read books about shapes, such as Shapes, Shapes, Shapes by Tana Hoban; Shapes That Roll by Karen Nagel; Bees, Snails, & Peacock Tails: Patterns & Shapes ... Naturally by Betsy Franco; and Shape by Shape by Suse MacDonald.

Activity 3

 Encourage your child to draw his or her favorite animal using circles, squares, triangles, and rectangles. Then, challenge your child to create the same animal using solid shapes. Use storebought or homemade clay or dough to make spheres, cubes, pyramids, and rectangular prisms.

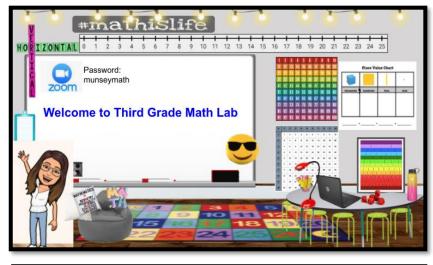


Examine a piece of paper together. Count the paper's sides and corners. If the paper's sides are all equal, it is a square. If the opposite sides are equal, it is a rectangle.

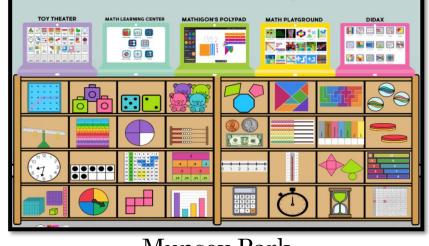
Next, look at a cereal box. Count the sides and corners. Identify the box as a **rectangular prism**, which is a type of solid shape.



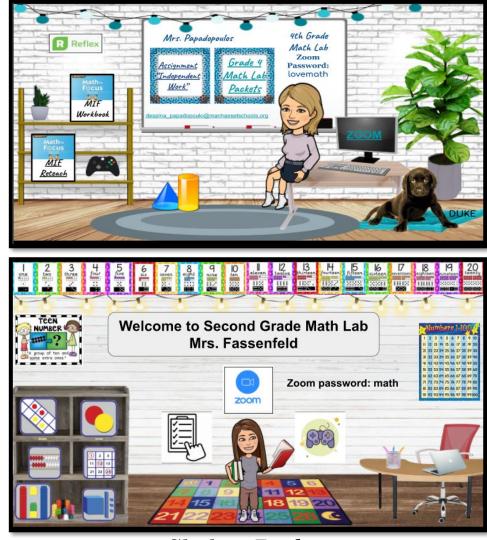
Elementary Math Specialists







<u>Munsey Park</u> Mrs. Scognamiglio Ms. Yang



Shelter RockMrs. FassenfeldMrs. Papadopoulos

NWEA Results for our 16 Summer Tier 3 Participants

•Average growth at the 52.40th percentile

•Average achievement at the 25th percentile

•Average gain of 8.75 RIT score units

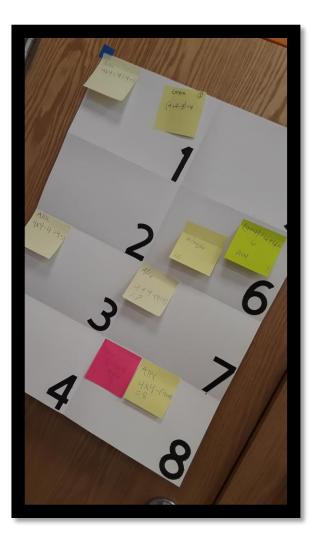
Grade 5 Classroom Enrichment



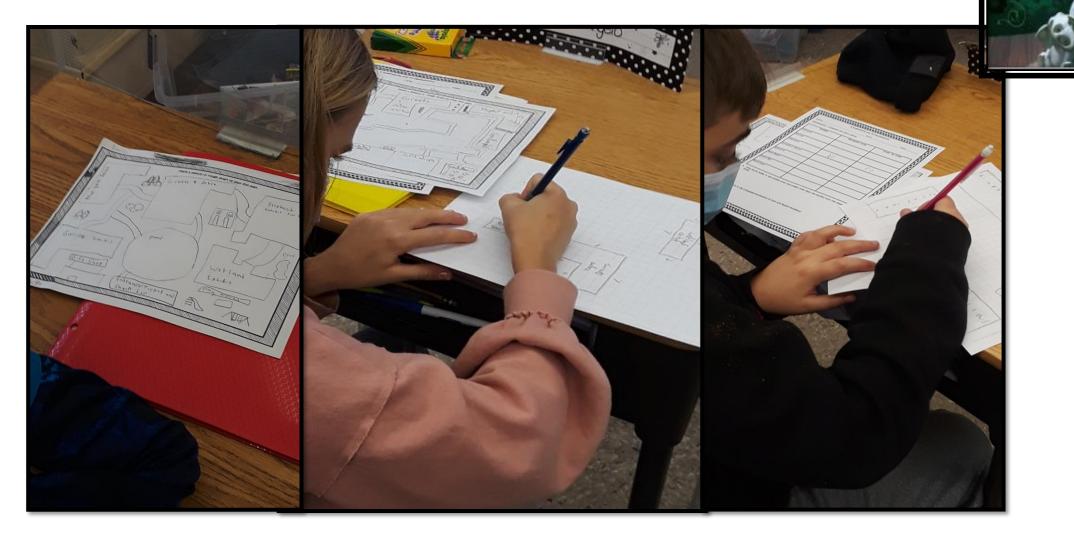
Four 4's

$$4 + 4 + 4 + 4 = 16$$

$$[(4 \times 4) - 4] \div 4 = 3$$



Grade 5 Classroom Enrichment: Math-ELA Connections



Math Pathways for Grade 5 & 6

- All grade 5 students are placed in heterogeneously grouped math classes
- Grade 5 students in need of academic intervention for math receive these services in small groups outside of their regular math time
- All Grade 5 classes incorporate two 30-minute blocks of dedicated math enrichment time each week
- At the end of Grade 5, students may be identified for accelerated math in Grade 6



Identification Process for Accelerated Math in Grade 6

PHASE 1:

- CogAT exam offered in late Spring of 5^{th} grade
 - At least 98th National Percentile on Quantitative/Non-Verbal Combined Score

PHASE 2:

- Renzulli-Hartman Rating Scale
 - Helps identify students with flexible thinking, strong number sense, and natural curiosity
- Work Sample Review
- On-Demand Mathematical Tasks
 - Secure exam administered to identified students to assess appropriateness of skipping Grade 6 curriculum



Cognitive Abilities Test

Timeline



- Mid-May: CogAT exam (OPT-IN) for Grade 4 & 5 students
- Early June: Secure exam (On-Demand Mathematical Tasks) for invited students
- Mid-June: Committee meets to review secure exam results, teacher feedback, and student work samples
- End of School Year: Notification about acceptance to accelerated math pathway

Secure Exam (On-Demand Mathematical Tasks)

- Approximately 70% on Grade 6 learning standards
- Approximately 30% on deep conceptual knowledge of concepts learned prior to grade 6
- Roughly 1.5 hours in length
- Approximately 50 questions

Math Pathways for Grade 7

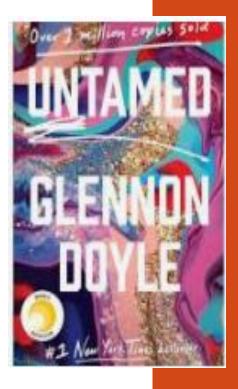


- Grade 6 students enrolled in Grade Level math progress to either
 - Math 7 R: Regents level pathway [currently 4 sections]
 - Math 7 E: Accelerated pathway [currently 5 sections]
- Grade 6 students enrolled in Advanced Math progress to either
 - Math 8 H: additional year of pre-algebra [approx. 1/3 of advanced students]
 - Math 9 H: Algebra course [approx. 2/3 of advanced students]

Food For Thought...

"There is so much about phones and children that parents worry about but I find myself worrying most that when we hand our children phones we steal their boredom from them. As a result we're raising a generation of writers who will never start writing, artists who will never start doodling, chefs who will never make a mess of the kitchen, athletes who will never kick a ball against a wall, and musicians who will never pick up a guitar and start strumming."

- Glennon Doyle



Thank you for attending!

Please reach out with your questions:

Lauren_Tallarine@manhassetschools.org