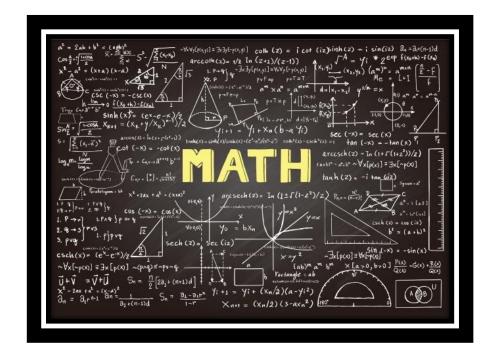


Elementary Math Program Update

Lauren Tallarine, District Coordinator of Mathematics

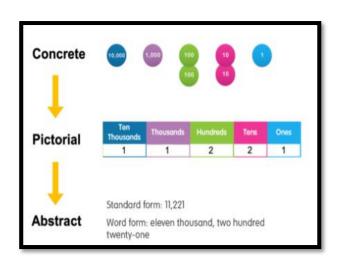
Overview

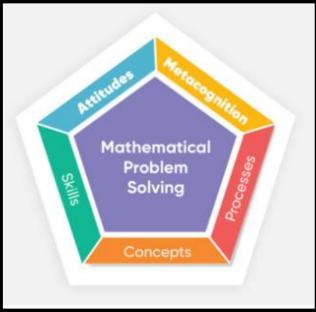
- •What does success look like?
- How are we doing?
- •Where are we going?



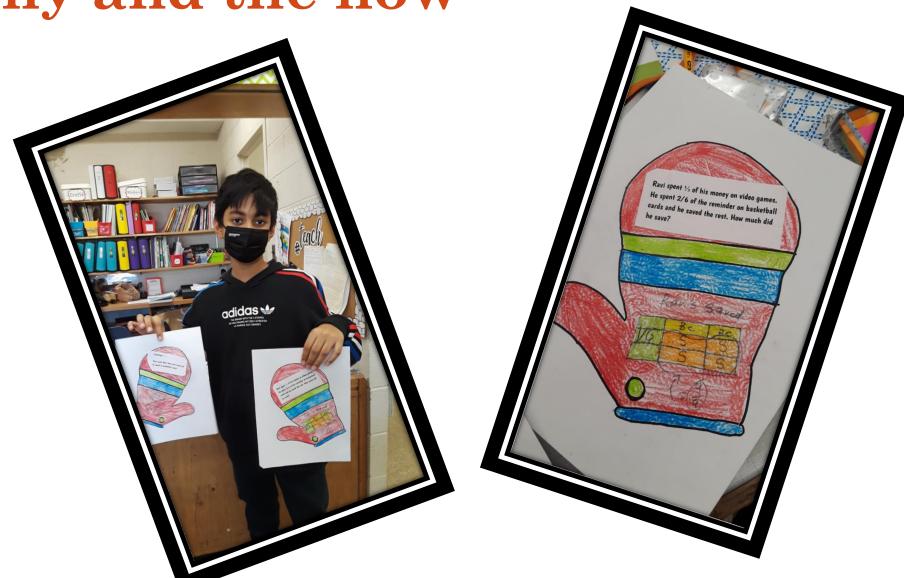
What does success look like?

- Math in Focus
 Singapore Math
 by Marshall Cavendish
- Embedded problem solving
- •Balanced understanding of the why and the how
- Number sense





Balanced understanding of the why and the how











Early Number Sense









How are we doing?

- •NWEA Data
- Internal Data

NWEA National Data

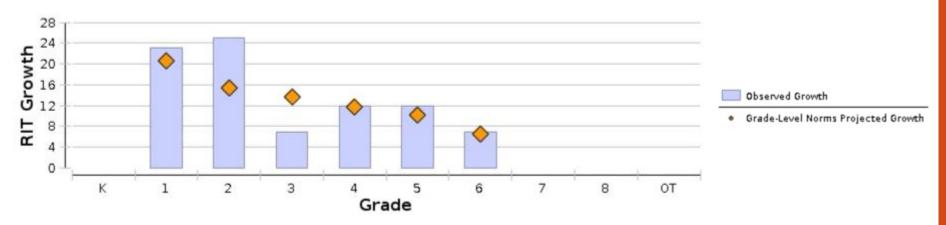
Nationally, NWEA observed a 5 – 10 percentile point decline in mathematics, compared to the same grade level, last year.

This national COVID slide was not as severe in reading.

Manhasset's NWEA Growth Data

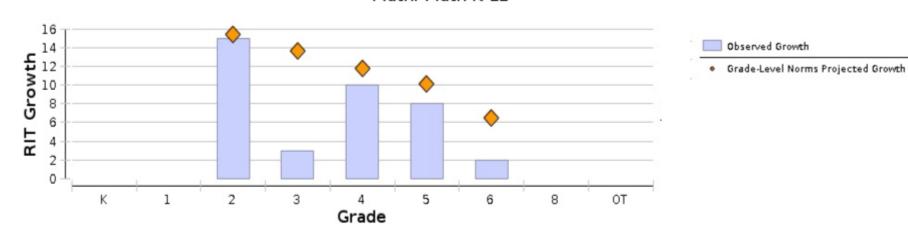
• Fall 2019 Growth Measure Summary

Math: Math K-12



• Fall 2020 Growth Measure Summary

Math: Math K-12



Manhasset's NWEA Achievement Data

Math: Math K-12								
ı		Comparison Periods						
		Fall 2019			Fall 2020)	
	Grade (Fall 2020)	Growth Count‡	Mean RIT	SD	Percentile	Mean RIT	SD	Percentile
	K	0	**			余余		
	1	0	**			余余		
	2	202	169.7	14.8	95	184.6	11.1	95
	3	213	192.6	15.2	99	195.4	11.9	88
	4	222	197.1	13.3	93	206.8	15.1	86
	5	217	206.8	12.6	86	214.8	15.1	78
	6	253	220.0	13.2	93	222.5	15.3	84
	8	0	**			AA		
	ОТ	2	×			×		

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

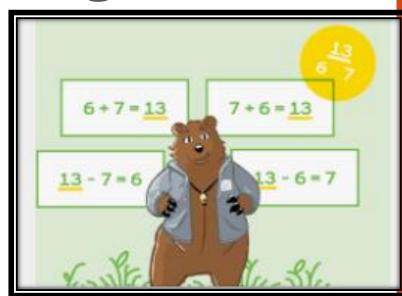
- Reflex Math
- Various Math in Focus Supports
- Math Specialists
- Summer Tier 3 Support Program
- Grade 5 Math Class Structure

Reflex Math Fluency Program

·Uses a fact family approach

Incorporates real-time coaching

Built-in incentives

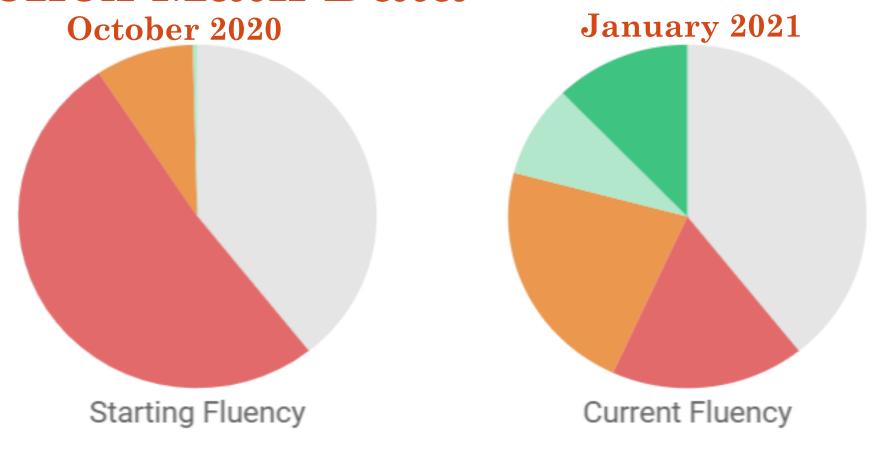


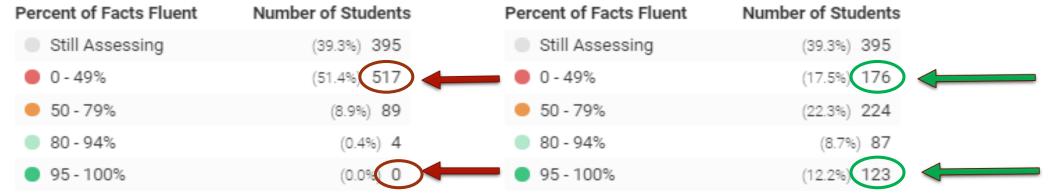


Reflex Math Data

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

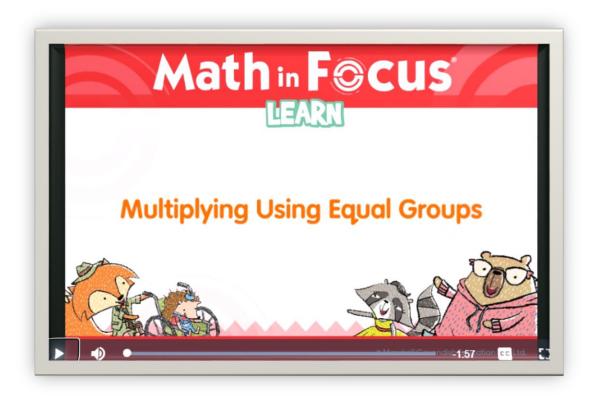
Reflex Math Data





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

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

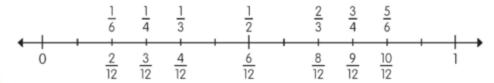






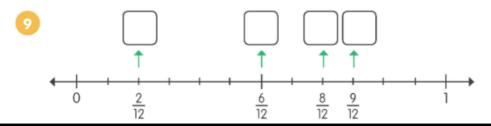
Math in Focus: Prior Knowledge Check-in

Representing fractions on a number line



▶ Quick Check

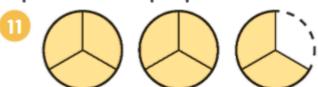
Fill in each blank with the correct equivalent fraction. Give your answer in simplest form.





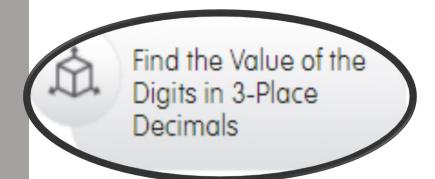
▶ Quick Check

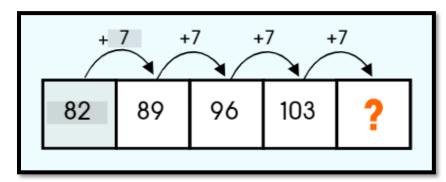
Express the improper fraction as a mixed number.

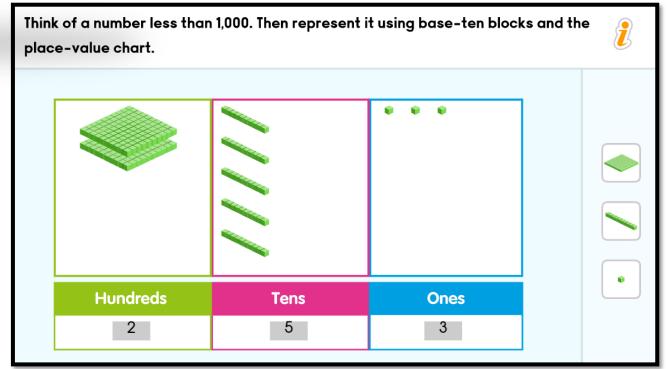


$$\frac{8}{3} =$$
 thirds

Math in Focus: Virtual Manipulatives







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



Dear Family,

In this chapter, your child will learn about angles. Skills your child will practice include:

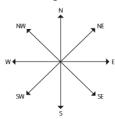
- · identifying, naming, estimating, and measuring angles
- using a protractor to draw and measure angles
- · relating turns to the number of right angles
- understanding what an angle measure of 1° represents
- · using addition or subtraction to find unknown angle measures
- solving real-world problems by finding unknown angle measures
- drawing perpendicular and parallel line segments

Math Practice

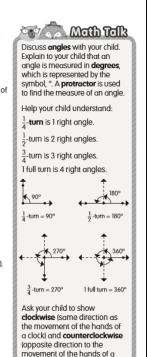
The study of angles is fundamental to the study of geometry. At the end of this chapter, you may want to carry out this activity with your child. This activity will help to strengthen your child's understanding of angles.

Activity

Have your child look at the diagram below.



- Ask your child to face a particular direction, for example, north (N).
- Then, ask your child to make a ³/₄-turn clockwise and read the direction he or she is facing (west (W)).
- Continue suggesting ¹/₄, ¹/₂, and ³/₄ turns, both clockwise and counterclockwise, and having your child read his or her direction after each turn.



clock) turns.

SCHOOL-to-HOME



Shapes and Patterns

Dear Family,

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 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.



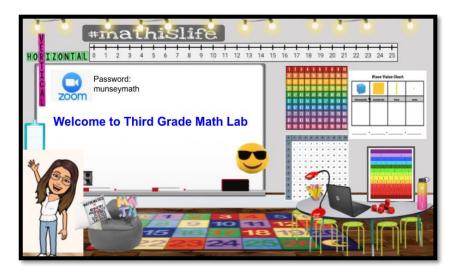
Moth Talk

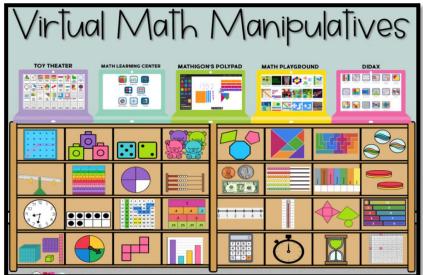
Examine a piece of paper together. Count the paper's sides and corners. If the paper's sides are all equal, it is a square. If the opposite sides are equal, it is a rectangle.

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.

Parent Resources

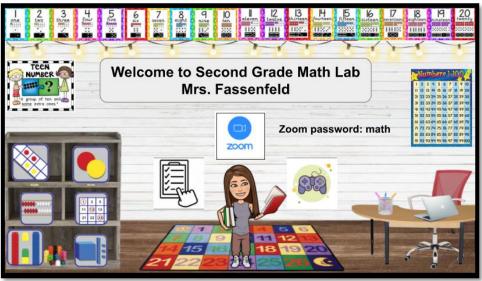
Elementary Math Specialists





Munsey Park
Mrs. Scognamiglio Ms. Yang





Shelter Rock
Mrs. Fassenfeld Mrs. 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

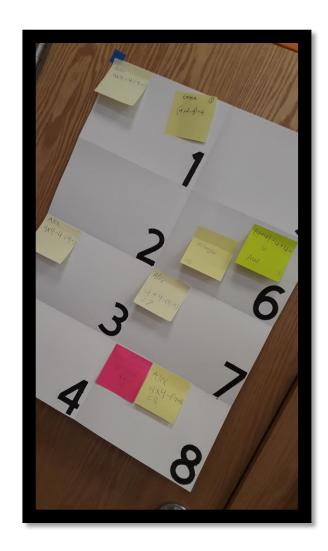
Grade 5 Classroom Enrichment



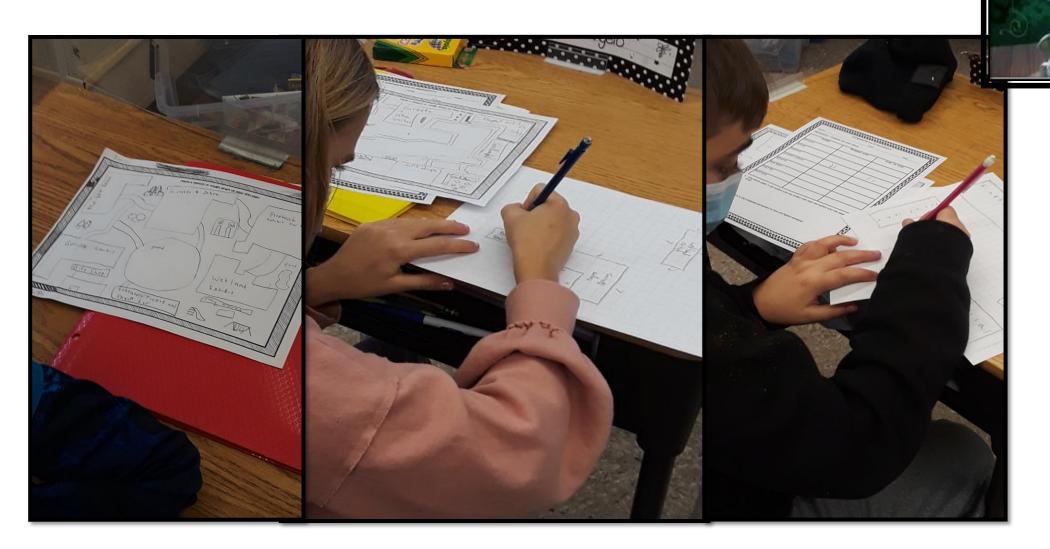
Four 4's

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

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



Grade 5 Classroom Enrichment: Math-ELA Connections



Where are we going?

- Continue to identify and respond to learning gaps
- Provide opportunities for interdisciplinary work



- Consideration of Grade 6 transition to the Math in Focus 2020 edition
- Late Winter Pilot of IXL for ELA & Math in Grade 6
- \bullet Incorporated IXL subscription into the Summer 2021 planning for grades K 6
- Discuss the addition of a 1.0 Shared Math Specialist
- Continued & ongoing teacher training for new text edition
- Implementation of new identification process for Grade 6 double accelerated math

Thank you for attending!

Please reach out with your questions:

Lauren_Tallarine@manhassetschools.org