Family Night — Math Strategies

Hal Hutchens Elementary February 9, 2021

Math Inventory

➤ The Math Inventory is a computerized test that results in a score, or Quantile®, that indicates how well a student understands mathematical skills and concepts along a developmental continuum. A student who scores at the Proficient level by the end of the school year is considered to be performing on grade level and is on track to meet the demands of college and career by the end of high school.

Test Administration - 3 times a year (August, December/January, May)



Quantile Resource

- https://www.quantiles.com/parents-students/findmath-resources-to-support-classroomlearning/mathhome/ or http://tinyurl.com/hutmath
- Click on

GO TO MATH@HOME

- Enter Student's Information from their Math Inventory Score Report
 - Use the Instructional Recommendations section to pick out keywords (i.e. Numbers and Operations, Algebraic Thinking, Patterns, etc.)

Fifth Grade Math Compact Goal

Students will score within the 5th grade quantile band on the Math Inventory. (Fifth Grade Quantile Band: 645-771)

In the 5th Grade Classroom

Teachers will provide a home task that incorporates new math strategies as they are introduced and review previously taught math strategies.

At Home

Families will provide time and focus for their child to complete their math homework then review and go over the homework daily.

Number Talks: What are They?

- Number talks are brief discussions (5-15 minutes) that focus on student solutions for a single, carefully chosen mental math computation problem.
- Students share their different mental math processes aloud while the teacher records their thinking visually on a chart or board.
- The teacher often names the strategies each student uses.
- Other students may question, critique, or build on the strategies that are shared.



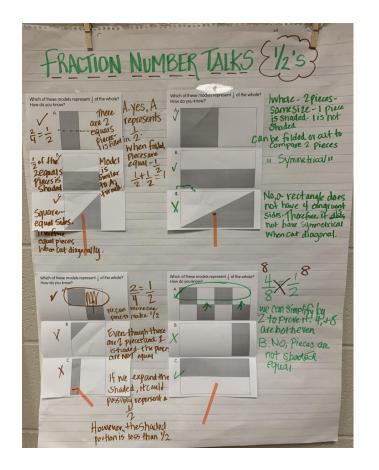
Number Talks

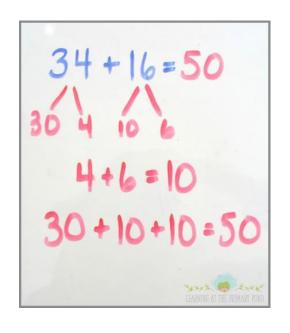
Silent signals are used to communicate so that peers have adequate wait time to think.

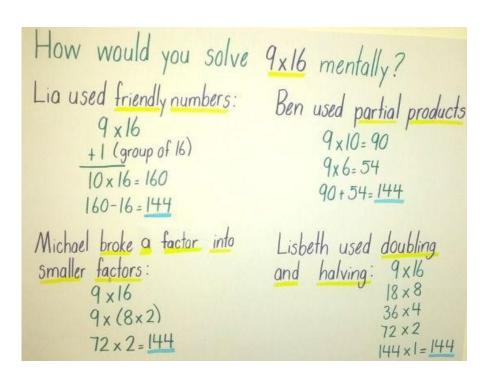
Reminders:

- Listen to others and respect all answers.
- Participate & Collaborate
- Try new strategies.
- Explain your thinking/steps.
- Be flexible in how you think!







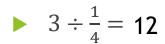


Number Talks: Example Anchor Charts

Math Strategy Modeling

- ► Tonight, we will discuss the ways in which we teach our students to solve division with fractions. (Note: the algorithm is taught in 6th grade).
- ► MGSE5.NF.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.
- Unit Fraction A unit fraction is any fraction with a numerator of 1.
 - ightharpoonup Ex. $-\frac{1}{2}, \frac{1}{8}, \frac{1}{12}$, etc.

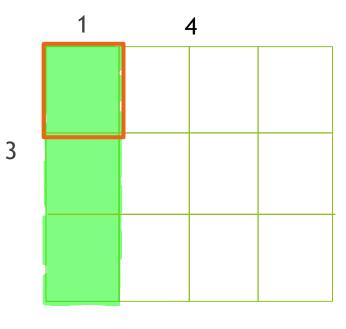
Division Fractions Models



1	2	3	4

5	6	7	8

$$\frac{1}{4} \div 3 = \frac{1}{12}$$



Fun Ideas for Fact Fluency Practice

- Dude's Dilemma http://teacher.scholastic.com/activities/adventure/math1.htm#
- Multiplication War Use two decks of cards and multiply to get the product. Whoever has the highest product wins.
- Education Galaxy My Skill Practice- www.educationgalaxy.com/login
- Roshambo (Math version of Paper, Rock, Scissors) Each person puts out a number and the person to say the correct product of the two numbers first wins.
- Multiplication Roll'Em Roll a pair of dice and multiply to get the product. Whoever has the highest product wins.
- Playdough Arrays Create arrays that match the multiplication fact.
- Multiplication Songs Flocabulary, YouTube, School House Rock
- ► Tic Tac Times https://ipadthinker.com/math/ticTacTimes.html
- App- Sushi Monster



Typing Club

- https://www.typingclub.com/
- Click on in top right hand corner of webpage
- Creating a login will allow students to continue their progress the next time they login back in.
- ► Georgia Milestones Assessment for 3rd 5th is administered on the computer. Students must type their constructed responses and the writing component.

Education Galaxy



www.educationgalaxy.com

Username - Student ID # + hes (lunch #)

Password - Student ID # (lunch #)

Resource for student skill practice at home in Reading, ELA, and Math

