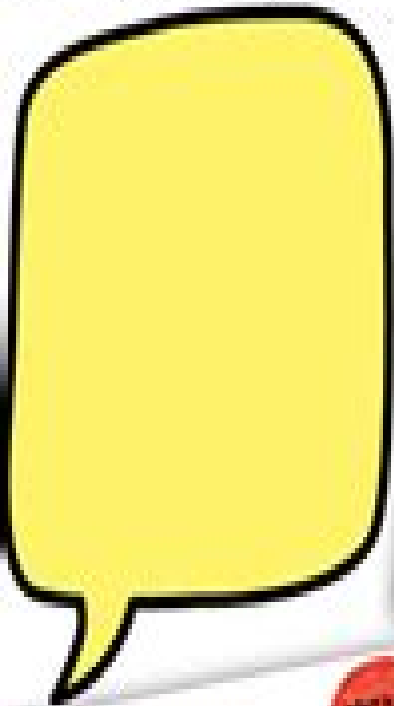


# NUMBER TALKS

grades pre-K to 5<sup>th</sup>



**example**

2/5 + 4/5 = 6/5

what's your strategy for adding?

adding the numerators  
making the same denominator

what's your strategy for adding?

adding the numerators  
making the same denominator

2/5 + 4/5 = 6/5

6/5 = 1 1/5

1 whole and 1/5 is the same as 1 1/5

gallon of red Kool-Aid + 4/5 gallon of lemon-lime soda

How many gallons is the punch?

**example**

What do you notice?

2 + 3 = 5

3 + 2 = 5

2 and 3

3 and 2

5 buttons

purple and yellow

2 + 2 + 1 = 5

5 holes

**example**

The hour is shorter

12 o'clock is at the top and the hour hand is between the 12 and 1, so it's 12:15

The minute hand is longer

each big tick mark is 5 minutes and the minute hand has two tick marks past one

**example**

1, 10, 10, 20

4 groups of 5

5 + 5 = 10

repeated addition

thought of tens as nickels and makes a 20 cent

multiplication

4 x 5 = 20

egg counted by fives

what's your strategy for adding?



**example**

what parts

cut down the middle

2 equal parts (up both)

2 parts

same halves

some of different sizes



# Number Talks Number Talks

**Cathy Humphreys, Ruth Parker**



## **Number Talks Number Talks:**

*Number Talks* Sherry Parrish, 2010 A multimedia professional learning resource Cover      **Making Number Talks Matter** Cathy Humphreys, Ruth E. Parker, 2015 Making Number Talks Matter is about the myriad decisions facing teachers as they make this fifteen minute daily routine a vibrant and vital part of their mathematics instruction Throughout the book Cathy Humphreys and Ruth Parker offer practical ideas for using Number Talks to help students learn to reason numerically and build a solid foundation for the study of mathematics This book will be an invaluable resource whether you are already using Number Talks or not whether you are an elementary middle school high school or college teacher or even if you are a parent wanting to support your child with mathematics Using insight gained from many years of doing Number Talks with students of all ages Cathy and Ruth address questions to ask during Number Talks teacher moves that turn the thinking over to students the mathematics behind the various strategies and ways to overcome bumps in the road If you've been looking for ways to transform your mathematics classroom to bring sense making and divergent thinking to the foreground to bring the Standards for Mathematical Practice to life and to bring joy back into your instruction this book is for you      Making Number Talks Matter Cathy Humphreys, Ruth Parker, 2023-10-10 Making the transition to student centered learning begins with finding ways to get students to share their thinking something that can be particularly challenging for math class Authors Ruth Parker and Cathy Humphreys introduce Making Number Talks Matter Developing Mathematical Practices and Deepening Understanding Grades 3-10 taking the readers into classrooms where their Number Talks routines are taught Parker and Humphreys apply their 15 minute lessons to inspire and initiate math talks Through vignettes in the book you'll meet other teachers learning how to listen closely to students and how to prompt them into figuring out solutions to problems You will learn how to make on the spot decisions continually advancing and deepening the conversation Making Number Talks Matter includes Sample Problems Filled with a range of Number Talks problems 10-15 minute warm up routines that lend themselves to mental math and comparison of strategies Navigating Rough Spots Learn how to create a safe environment for tricky or challenging student discussions that can arise when talking through problems and sharing ideas Responding to Mistakes Ways to handle misconceptions and mathematical errors that come up during the course of Number Talk conversations Making Number Talks Matter is filled with teaching tips for honoring student contributions while still correcting errors and teaching concepts while nudging independent thinking Whether you are an elementary middle school or high school teacher through daily practice and open conversation you can build a solid foundation for the study of mathematics and Make Number Talks Matter      Number Talks in the Primary Classroom Math Perspectives Teacher Development Center, 2020      *Classroom-Ready Number Talks for Kindergarten, First and Second Grade Teachers* Nancy Hughes, 2019-02-26 A wide variety of ready to use number talks that help kindergarten through second grade students learn math concepts in fun and easy ways Bringing the exciting teaching method of number talks into your classroom has never

been easier Simply choose from the hundreds of great ideas in this book and get going From activities on addition and subtraction to fractions and decimals Classroom Ready Number Talks for Kindergarten First and Second Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding Reduce time spent lesson planning and preparing materials and enjoy more time engaging your students in learning important math concepts These ready to use number talks are sure to foster a fresh and exciting learning environment in your classroom as well as help your students increase their comprehension of numbers and mathematical principles

**Number Talks** Sherry Parrish, 2010-01-01 This resource supports new and experienced educators who want to prepare for and design purposeful number talks for their students the author demonstrates how to develop grade level specific strategies for addition subtraction multiplication and division Includes connections to national standards a DVD reproducibles bibliography and index Provided by publisher

**Number Talks** Sherry Parrish, 2022-03-03 Number Talks n m b r t o k s A five to fifteen minute classroom conversation around purposefully crafted problems that are solved mentally The best part of a teacher s day Number Talks is a dynamic multimedia resource created in response to the requests of teachers those who want to implement number talks but are unsure of how to begin and those with experience who want more guidance in crafting purposeful problems It supports teachers in understanding what a classroom number talk is how to follow students thinking and pose the right questions to build understanding how to prepare for and design purposeful number talks how to develop grade level specific strategies for the operations of addition subtraction multiplication and division A Framework for Collaborative Learning While Number Talks may be used as an independent resource it is also structured to provide a framework for collaborative learning groups or to provide professional development opportunities through grade level teams individual schools or districts Chapter 9 was designed to serve as a facilitator s resource Streaming Video and Reproducibles Included Number Talks also includes streaming video clips that provide a visual platform for teachers to reflect on their current practices and target essential understandings from their readings The video clips feature number talks filmed in actual elementary classrooms plus seven bonus videos highlighting interviews with the author and teachers Clips range from five to ten minutes in length with a total viewing time of approximately two hours The resource includes reference tables to help you quickly and easily locate the video clips by chapter and grade level More than 250 pages of user friendly reproducible dot images and ten frames from Chapter 4 are also included for free with this resource

**Number Talks for Number Sense** Jackie Palmquist, Deb Kimminau, 2018-10

**Making Number Talks Matter** Cathy Humphreys, Ruth Parker, 2023 Making Number Talks Matter is about the myriad decisions facing teachers as they make this fifteen minute daily routine a vibrant and vital part of their mathematics instruction Throughout the book Cathy Humphreys and Ruth Parker offer practical ideas for using Number Talks to help students learn to reason numerically and build a solid foundation for the study of mathematics This book will be an invaluable

resource whether you are already using Number Talks or not whether you are an elementary middle school high school or college teacher or even if you are a parent wanting to support your child with mathematics      **Number Talks** Sherry Parrish,2014      **The New England Magazine** ,1898      **Report of General Activities for ... with Financial Statement for the Fiscal Year...** University of Florida. Agricultural Extension Service,1921      **Table Talk** ,1899      **index to the reports of committees of the house of representatives for the first and second of the forty - fifth congress 1877 - 1878** ,1878      Report of the Department of Health Connecticut. State Dept. of Health,1928      **Czechoslovak Foreign Trade** ,1986      *Report of the Board of Education* Connecticut. State Board of Education,1896      **Proceedings of the ... Annual Convention of the Iowa Bankers Association** Iowa Bankers Association,1941      *Number Talks for Algebra* Jackie Palmquist,Deb Kimminau,2018-08 Our flip book provides Number Talk prompts for each unit in a typical Algebra class From Linear functions to Statistics enjoy revealing student thinking uncovering misconceptions and powerful math conversations      *Biennial Report* North Carolina. State Board of Health,1948

The Top Books of the Year Number Talks Number Talks The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Number Talks Number Talks : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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