

First Grade Subtraction NUMBER TALKS

Solve It!

$$9 - 4 = \underline{\quad}$$



Choose Two!

10 32 29 20



Is It True?

$$14 - 5 < 10$$

Subtraction Equations

Start Answer
15



Solve for the Unknown

$$13 - \underline{\quad} = 7$$



What number is missing to make the equation true? How do you know?

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The Difference Is...

2
 $2 = \square - \square$



The difference is 2. What could the subtraction equation be?
What other equation could it be?

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Number Talks Mental Math

Nancy Hughes

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Number Talks Mental Math:

Number Talks Sherry Parrish, 2010 A multimedia professional learning resource Cover *Number Talks* Sherry Parrish, 2010 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, 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

Classroom-Ready Number Talks for Sixth, Seventh, and Eighth Grade Teachers Nancy Hughes, 2020-03-31 The fun way to teach middle schoolers the mental math problem solving skills they need to meet common core standards and attain mathematical fluency 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 with no extra time wasted From activities on multiplication and division to decimals and integers Classroom Ready Number Talks for Sixth Seventh and Eighth 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

Digging Deeper Ruth Parker, Cathy Humphreys, 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 older learners Authors Ruth Parker and Cathy Humphreys return with Digging Deeper Making Number Talks Matter Even More Grades 3 10 taking the readers into classrooms where their Number Talks routines are taught In this comprehensive sequel to their best selling book Making Number Talks Matter Parker and Humphreys apply their 15 minute lessons to older grade levels 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 Digging Deeper includes Sample Problems Digging Deeper is 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 problematic 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 Digging Deeper is filled with teaching tips for using wait time between problems more efficiently honoring student contributions while still

correcting errors and teaching concepts while nudging independent thinking Through daily practice and open conversation you can make Number Talks matter more *The Impact of Daily Number Talks on the Development of Mental Math Abilities of Second Graders Within a Reform-based Classroom* Angela I. Mader-Stewart, 2018 In this mixed methods case study I examined the impact of daily number talks or strings on the development of mental math abilities of second graders within a reform based classroom I also looked at whether or not the implementation of number talks would increase students ability to calculate with accuracy efficiency and flexibility Finally I looked at whether or not the implementation of number talks would increase students understanding of place value and number relationships The sample included one class of 19 second graders to determine the overall impact of number talks with a focus on six embedded case studies which amplified how this change occurred A preassessment interview two midassessments twenty four number talks a postnumber talk questionnaire and a postassessment interview were used over the span of six weeks The twenty four number talks were developed for students to invent construct and make sense of their own number strategies and their underlying key ideas After six weeks of number talks all students demonstrated an increase in accuracy efficiency and flexibility in their number calculations to 20 The case study data of two low achieving three average achieving and one high level student reveals growth in their ability to articulate their thinking with an increase in their understanding of place value and number relationships

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

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

Mathematics as the Science of Patterns Patrick M. Jenlink, 2022-02-01 Mathematics as the Science of Patterns Making the Invisible Visible to Students through Teaching introduces the reader to a collection of thoughtful research based works by authors that represent current thinking about mathematics mathematics education and the preparation of mathematics teachers Each chapter focuses on mathematics teaching and the preparation of teachers who will enter classrooms to instruct the next generation of students in mathematics The value of patterns to the teaching and learning of mathematics is well understood both in terms of research and application When we involve or appeal to pattern in teaching mathematics it is usually because we are trying to help students to extract greater meaning or enjoyment or both from the experience of learning environments within which they are occupied and perhaps also to facilitate remembering As a general skill it is thought that the ability to discern a pattern is a precursor to the ability to generalize and abstract a skill essential in the early years of learning and beyond Research indicates that the larger problem in teaching mathematics does not lie primarily with students rather it is with the teachers themselves In order to make changes for students there first needs to be a process of change for teachers Understanding the place of patterns in learning mathematics is a predicate to understanding how to teach mathematics and how to use pedagogical reasoning necessary in teaching mathematics Importantly the lack of distinction created by the pedagogical use of patterns is not immediately problematic to the student or the teacher The deep seated cognitive patterns that both teachers and students bring to the classroom require change Chapter 1 opens the book with a focus on mathematics as the science of patterns and the importance of patterns in mathematical problem solving providing the reader with an introduction The authors of Chapter 2 revisit the work of Polya and the development and implementation of problem solving in mathematics In Chapter 3 the authors present an argument for core pedagogical content knowledge in mathematics teacher preparation The authors of Chapter 4 focus on preservice teachers patterns of conception as related to understanding number and operation In Chapter 5 the authors examine the role of visual representation in exploring proportional reasoning denoting the importance of helping learners make their thinking visible The authors of Chapter 6 examine patterns and relationships and the importance of each in assisting students learning and development in

mathematical understanding The authors of Chapter 7 examine the use of worked examples as a scalable practice with emphasis on the importance of worked examples in teaching fraction magnitude and computation is discussed In Chapter 8 the authors expand on the zone of proximal development to investigate the potential of Zankov s Lesson in terms of students analyzing numerical equalities The authors of Chapter 9 focus on high leverage mathematical practices in elementary pre service teacher preparation drawing into specific relief the APEX cycle to develop deep thinking In Chapter 10 the author focuses on number talks and the engagement of students in mathematical reasoning which provides opportunities for students to be sensemakers of mathematics Chapter 11 presents an epilogue focusing on the importance of recognizing the special nature of mathematics knowledge for teaching

Classroom-Ready Number Talks for Sixth, Seventh, and Eighth Grade Teachers Nancy Hughes,2020-03-31 Make math class fun with this big book of number talk strategies designed to teach middle school students the mental math problem solving skills they need to meet common core standards and become successful mathematical thinkers 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 with no extra time wasted From activities on multiplication and division to decimals and integers Classroom Ready Number Talks for Sixth Seventh and Eighth 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

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

The Language of Mathematics Education Shannon W. Dingman,Laura B. Kent,Kim K. McComas,Cynthia C. Orona,2019-08-26 The Language of Mathematics Education An Expanded Glossary of Key Terms and Concepts in Mathematics Teaching and Learning offers mathematics teachers mathematics education professionals and students a valuable resource in which common terms are

defined and expounded upon in short essay format The shared vocabulary and terminology relating to mathematics teaching and learning and used by mathematics educators is an essential component of work conducted in the field The authors provide an overview of more than 100 terms commonly used in mathematics teaching and learning Each term is defined and is followed by a short overview of the concept under discussion that includes several bibliographic references the reader can use for further investigation In addition to terms specific to the domain of mathematics education select key terms common across all fields of education e g curriculum epistemology metacognition are included The goal for this book is to serve as a resource for those entering the field as they navigate the language and terminology of mathematics education and as an asset for more established professionals who wish to gain additional insights into these ideas

Online Learning in Mathematics Education Karen Hollebrands, Robin Anderson, Kevin Oliver, 2021-10-27 This book brings together research from mathematics education and instructional design to describe the development and impact of online environments on prospective and practicing teachers learning to teach mathematics The move to online learning has steadily increased over the past decade Its most rapid movement occurring in 2020 with most instruction taking place remotely Chapters in this book highlight issues related to teacher learning in three main contexts formal informal and experiential or practice based This volume brings together researchers from the different but related fields of instructional design and mathematics education to engage in dialogue around how we design and study the impacts of online learning in general and online mathematics education more specifically The book is very timely with most instruction taking place online and mathematics educators addressing challenges related to supporting teachers formal informal and experiential learning online A chapter in each section will synthesize ideas presented by instructional designers and mathematics educators as it relates to teacher learning in each context At the end of each section a retrospective chapter is presented to reflect on what the different perspectives offer to better understand mathematics teacher learning in online environments This book is of interest to mathematics educators researchers teacher educators professional development providers and instructional designers

The Impact of Number Talks on Number Sense Jenna Poeltl, 2021 The purpose of this research was to determine if consistent Number Talks has an impact on students number sense and ability to do mental math computations Number Talks is a pedagogical technique that is designed to promote student discourse and thinking about numbers and operations in nontraditional ways This research was conducted with four different 8th grade classes two Algebra 1 courses and two Introduction to Algebra courses A two sample t test was conducted to determine if there was a significant difference in the pretest score and post test score for each student in the control group versus the treatment group for the Intro classes and the Algebra 1 classes The test indicated that there was no significant difference for either group of students However more students in the Intro treatment group were able to solve the four basic operations on the post test using more than just the standard algorithm after the six weeks of Number Talks were implemented in their class Even though in this study there was

no positive correlation between Number Talks and students number sense the researcher still believes that Number Talks helps students with mental computations and see the relationship between numbers and operations more clearly Future research should take place over a longer period of time and should be analysed using more than just a pretest and a post test

Joyful Math Deanna Pecaski McLennan, 2023-10-10 If you've ever wished that learning math could be more joyful and playful for young learners you're not alone In *Joyful Math: Invitations to Play and Explore in the Early Childhood Classroom* kindergarten teacher Deanna Pecaski McLennan opens her classroom doors to share the practical yet innovative ways she integrates mathematical play throughout the school day Each chapter of this easy to navigate photo filled book focuses on specific strategies activities and examples of mathematical play within literacy art and outdoor explorations Inside *Joyful Math* you'll find A photo guide including suggested tools and materials to setting up a classroom environment and space that fosters mathematical curiosity and joy Dozens of open ended and teacher guided mathematical activities that are simple to set up and full of mathematical possibility Practical tips for including mathematical play across the day Suggestions and examples of ways to document and share children's learning experiences with families and communities *Joyful Math* will inspire educators to make space for joy and play in early childhood mathematics and give them the tools to make this vision a reality

Promoting Equity in Approximations of Practice for Mathematics Teachers Wilkerson Lee, Carrie, Bondurant, Liza, Sapkota, Bima, Howell, Heather, 2024-11-07 Within the field of mathematics teacher education a profound challenge echoes the persistent gap between theoretical understanding and practical application This lingering divide raises a critical concern one that finds its focus in the exploration of transformative tools known as approximations of practice These tools aim to provide a realistic and contextualized environment for PSTs to cultivate their teaching skills However the broader often overlooked issue permeating this educational terrain is the question of equity in mathematics instruction an issue that this book endeavors to unravel and reshape positioning equity at the forefront of pedagogical considerations *Promoting Equity in Approximations of Practice for Mathematics Teachers* a compelling work that not only delves into the transformative role of approximations but also champions equity as a cornerstone in reshaping the landscape of mathematics education This groundbreaking work has a dual objective firstly to furnish mathematics teacher educators and researchers with a comprehensive overview of the current landscape of approximations in mathematics education It moves beyond a mere survey encouraging readers to critically analyze frameworks and design choices that either foreground or dismiss equity in these pedagogical spaces Divided into three sections the book delves into the spectrum of work characterizing approximations in mathematics teacher education The first section surveys diverse approaches acknowledging the current lack of focus on equity The second section critically examines the intersection of equity and approximations fostering collaborations between experts in mathematics education and equity focused researchers The third section takes a forward looking stance envisioning the future of equity focused approximations in mathematics education

Elevating Clinical

Practice in Mathematics Education Drew Polly, Christie S. Martin, 2025-06-20 Elevating clinical practice in mathematics education has potential to greatly transform the preparation of effective mathematics teachers This book showcases examples of clinical practice in mathematics education with each chapter focused on one of the National Council for Teachers of Mathematics Effective Teaching Practices Physical Activity and Learning After School Paula J. Schwanenflugel, Phillip D. Tomporowski, 2017-12-12 Subject Areas Keywords academic enrichment programs academic skills after school activities after school programs children elementary schools exercise games health promotion high poverty schools interventions kinesiology literacy mathematics obesity prevention physical education physical fitness public health reading social studies struggling learners students DESCRIPTION Every school day more than 10 million children attend after

Handbook of Research on Formative Assessment in Pre-K Through Elementary Classrooms Martin, Christie, Polly, Drew, Lambert, Richard, 2019-12-06 Educators require constructive information that details their students comprehension and can help them to advance the learners education Accurate evaluation of students at all educational levels and the implementation of comprehensive assessment strategies are essential for ensuring student equality and academic success The Handbook of Research on Formative Assessment in Pre K Through Elementary Classrooms is an essential research publication that addresses gaps in the understanding of formative assessment and offers educators meaningful and comprehensive examples of formative assessment in the Pre K through elementary grade levels Covering an array of topics such as literacy professional development and educational technologies this book is relevant for instructors administrators education professionals educational policymakers pre service teachers academicians researchers and students **Mindset Mathematics: Visualizing and Investigating Big Ideas, Grade 1** Jo Boaler, Jen Munson, Cathy Williams, 2021-01-15 Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts In this volume you ll find a collection of low floor high ceiling tasks that will help you do just that by looking at the big ideas at the first grade level through visualization play and investigation During their work with tens of thousands of teachers authors Jo Boaler Jen Munson and Cathy Williams heard the same message that they want to incorporate more brain science into their math instruction but they need guidance in the techniques that work best to get across the concepts they needed to teach So the authors designed Mindset Mathematics around the principle of active student engagement with tasks that reflect the latest brain science on learning Open creative and visual math tasks have been shown to improve student test scores and more importantly change their relationship with mathematics and start believing in their own potential The tasks in Mindset Mathematics reflect the lessons from brain science that There is no such thing as a math person anyone can learn mathematics to high levels Mistakes struggle and challenge are the most important times for brain growth Speed is unimportant in mathematics Mathematics is a visual and beautiful subject and our brains want to think visually about

mathematics With engaging questions open ended tasks and four color visuals that will help kids get excited about mathematics Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State Standards CCSS and can be used with any current curriculum

The book delves into Number Talks Mental Math. Number Talks Mental Math is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Number Talks Mental Math, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Number Talks Mental Math
 - Chapter 2: Essential Elements of Number Talks Mental Math
 - Chapter 3: Number Talks Mental Math in Everyday Life
 - Chapter 4: Number Talks Mental Math in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Number Talks Mental Math. This chapter will explore what Number Talks Mental Math is, why Number Talks Mental Math is vital, and how to effectively learn about Number Talks Mental Math.
3. In chapter 2, this book will delve into the foundational concepts of Number Talks Mental Math. The second chapter will elucidate the essential principles that need to be understood to grasp Number Talks Mental Math in its entirety.
4. In chapter 3, the author will examine the practical applications of Number Talks Mental Math in daily life. This chapter will showcase real-world examples of how Number Talks Mental Math can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Number Talks Mental Math in specific contexts. This chapter will explore how Number Talks Mental Math is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Number Talks Mental Math. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Number Talks Mental Math.

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Number Talks Mental Math Introduction

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