

LEARNING TASK

Add & Subtract

Rational Numbers (Fractions + Decimals)

Adding & Subtracting Rational Numbers

Definition: A rational number is any number that can be expressed as a ratio (fraction).

Examples: $\frac{1}{2}$, $-\frac{3}{4}$, 1 , -2 , 0.5 , -1.2

Rule: When adding or subtracting rational numbers, find a common denominator.

Example 1: Adding Fractions

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Example 2: Subtracting Fractions

$$\frac{3}{4} - \frac{1}{2} = \frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

Example 3: Adding Decimals

$$1.2 + 0.8 = 2.0$$

Example 4: Subtracting Decimals

$$2.5 - 1.3 = 1.2$$

Example 5: Adding Mixed Numbers

$$1\frac{1}{2} + 2\frac{1}{3} = 1\frac{2}{3} + 2\frac{1}{3} = 3\frac{3}{3} = 4$$

Example 6: Subtracting Mixed Numbers

$$3\frac{1}{2} - 1\frac{1}{4} = 3\frac{2}{4} - 1\frac{1}{4} = 2\frac{1}{4}$$

Example 7: Adding Negative Numbers

$$-2 + -3 = -5$$

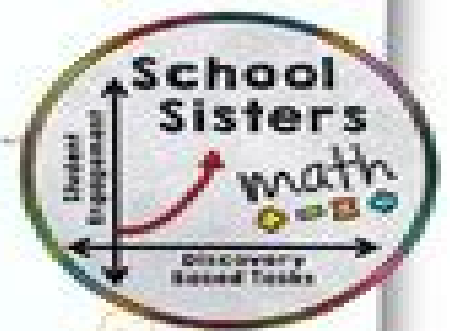
Example 8: Subtracting Negative Numbers

$$-2 - -3 = -2 + 3 = 1$$

Example 9: Adding Fractions and Decimals

$$\frac{1}{2} + 0.5 = \frac{1}{2} + \frac{1}{2} = 1$$

Example 10: Subtracting Fractions and Decimals

$$1.5 - \frac{1}{2} = 1.5 - 0.5 = 1$$


Cooperative Learning

Pbl With Fractions And Decimals

Christian G. Meyer



Pbl With Fractions And Decimals:

Project-Based Learning in the Math Classroom Chris Fancher, Telannia Norfar, 2021-10-03 Project Based Learning in the Math Classroom explains how to keep inquiry at the heart of mathematics teaching and helps teachers build students abilities to be true mathematicians This book outlines basic teaching strategies such as questioning and exploration of concepts It also provides advanced strategies for teachers who are already implementing inquiry based methods Project Based Learning in the Math Classroom includes practical advice about strategies the authors have used in their own classrooms and each chapter features strategies that can be implemented immediately Teaching in a project based environment means using great teaching practices The authors impart strategies that assist teachers in planning standards based lessons encouraging wonder and curiosity providing a safe environment where failure occurs and giving students opportunities for revision and reflection Grades 6 10

Transforming Schools Using Project-Based Learning, Performance Assessment, and Common Core Standards Bob Lenz, Justin Wells, Sally Kingston, 2015-01-08 It s not what students know but what they do with what they know that is important Schools are changing in response to this reality and in Transforming Schools Using Project Based Learning Performance Assessment and Common Core Standards Bob Lenz Justin Wells and Sally Kingston draw on the example of the Envision Education schools as well as other leading schools around the country to show how the concept of deeper learning can meet the need for students who are both college and career ready and engaged in their own education In this book the authors explain how project based learning can blend with Common Core aligned performance assessment for deeper learning You ll discover how many schools have successfully made the transition from traditional teacher centered learning to project based deeper learning and find many practical ideas for implementation Companion DVD and website include videos showing how to implement deeper learning strategies in the classroom Evidence based descriptions show why deeper learning is right for students Performance assessment experts explain how to align assessments with Common Core by shifting the emphasis from knowing to doing Extensive game plan section provides step by step guidance for change Schools are complex organizations and transformation involves all of the stakeholders from students to superintendents But as this book shows there are amazing benefits to be realized when everyone commits to diving deeper into learning

Large-Scale Studies in Mathematics Education James A. Middleton, Jinfa Cai, Stephen Hwang, 2015-05-05 In recent years funding agencies like the Institute of Educational Sciences and the National Science Foundation have increasingly emphasized large scale studies with experimental and quasi experimental designs looking for objective truths Educational researchers have recently begun to use large scale studies to understand what really works from developing interventions to validation studies of the intervention and then to efficacy studies and the final scale up for large implementation of an intervention Moreover modeling student learning developmentally taking into account cohort factors issues of socioeconomics local political context and the presence or

absence of interventions requires the use of large data sets wherein these variables can be sampled adequately and inferences made. Inroads in quantitative methods have been made in the psychometric and sociometric literatures but these methods are not yet common knowledge in the mathematics education community. In fact, currently there is no volume devoted to discussion of issues related to large scale studies and to report findings from them. This volume is unique as it directly discusses methodological issues in large scale studies and reports empirical data from large scale studies.

Bringing Project-Based Learning to Life in Mathematics, K-12 Maggie Lee McHugh, 2023-05-04 Go beyond problem solving and performance tasks. Bring project based learning to life. Do you want your students to be more engaged in their mathematics lessons while also amplifying cultural relevancy and equity? If so, proceed to the next level of instruction with project based learning (PBL). This book provides the whole PBL game plan designed by an experienced award winning teacher and researcher. Whether you want to start with small steps or you are ready for full implementation in your classroom, project based learning experiences can lead to forever memories and deeper learning for your students. Answering the why, what, and how of embarking on the journey toward PBL, readers will find Need to Know questions to open each chapter, Student and educator vignettes to identify stumbling blocks and successes, PBL Plus Tips that identify those small steps teachers can make to gradually shift toward PBL, Your Turn prompts to actively connect ideas to your practice. This approachable guide includes everything you need to move from tasks to memorable project based experiences that leverage student voice and choice and build a welcoming classroom culture. **A Companion To Interdisciplinary Stem Project-Based Learning**

Mary Margaret Capraro, Robert Capraro, 2016-07-18 This text contains 25 Project Based Learning (PBL) lessons written by a combination of undergraduate preservice teachers, inservice teachers, and graduate students. Everyone who wrote a chapter strives to improve STEM education to help others implement standards based STEM instruction that takes learning in isolation to greater accountability through integrated and meaningful tasks that answer the question every teacher dreads: When am I going to use this? The PBLs were written to implement in middle and high school classrooms. All of them are interdisciplinary in nature. We have divided them into six themes: construction and design, water environment, mixtures, technology, nutrition, and genetics. Each lesson contains a schedule at a glance and the well defined outcome so you can quickly see how a particular PBL fits into your curriculum. Objectives are listed along with STEM connections written as objectives. We have included all materials needed and then each day of activities including an imbedded engagement, exploration, explanation, evaluation, including rubrics and extension. We have tried to include everything necessary for successful implementation. This practical book is the perfect companion to the handbook for learning about implementing PBLs. Project Based Learning: An Integrated Science, Technology, Engineering, and Mathematics STEM Approach, second edition. Successfully Implementing Problem-Based Learning in Classrooms Thomas Brush, John W. Saye, 2017-03-15

Problem based learning (PBL) represents a widely recommended best practice that facilitates both student engagement with

challenging content and students ability to utilize that content in a more flexible manner to support problem solving This edited volume includes research that focuses on examples of successful models and strategies for facilitating preservice and practicing teachers in implementing PBL practices in their current and future classrooms in a variety of K 12 settings and in content areas ranging from the humanities to the STEM disciplines This collection grew out of a special issue of the Interdisciplinary Journal of Problem Based Learning It includes additional research and models of successful PBL implementation in K 12 teacher education and classroom settings

Project-Based Learning in the Math Classroom

Telannia Norfar,Chris Fancher,2022-03-14 Project Based Learning in the Math Classroom Grades 3 5 explains how to keep inquiry at the heart of mathematics teaching in the upper elementary grades Helping teachers integrate other subjects into the math classroom this book outlines in depth tasks projects and routines to support Project Based Learning PBL Featuring helpful tips for creating PBL units alongside models and strategies that can be implemented immediately Project Based Learning in the Math Classroom Grades 3 5 understands that teaching in a project based environment means using great teaching practices The authors impart strategies that assist teachers in planning standards based lessons encouraging wonder and curiosity providing a safe environment where mistakes can occur and giving students opportunities for revision and reflection

RTI in Middle and High Schools William N. Bender,2011-10-27 Perhaps more than any other single initiative response to intervention is likely to restructure how middle and high school teachers teach in a very profound way This timely and targeted resource discusses the innovations of RTI differentiated instruction and instructional technologies Based on numerous real world case studies this book explores solutions for the complex challenges the RTI implementation process brings

Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications

Management Association, Information Resources,2016-10-12 The delivery of quality education to students relies heavily on the actions of an institution s administrative staff Effective leadership strategies allow for the continued progress of modern educational initiatives Educational Leadership and Administration Concepts Methodologies Tools and Applications provides comprehensive research perspectives on the multi faceted issues of leadership and administration considerations within the education sector Emphasizing theoretical frameworks emerging strategic initiatives and future outlooks this publication is an ideal reference source for educators professionals school administrators researchers and practitioners in the field of education

Literacy Enrichment and Technology Integration in Pre-Service Teacher Education Keengwe, Jared,Onchwari, Grace,Hucks, Darrell,2013-12-31 With the emergence of innovative technologies the digital nature of learning environments has changed the face of education The integration of these technologies into classroom instruction is essential for promoting student learning Literacy Enrichment and Technology Integration in Pre Service Teacher Education examines the various strategies to resolve the challenges of technology integrations for teachers while offering best practices for transforming education Focusing on the future of technology integration in education this book is an essential tool for administrators

technology leaders faculty teachers technology staff and other educational technology stakeholders in various education related disciplines

Pbl With Fractions And Decimals Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Pbl With Fractions And Decimals**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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