

Subtraction Detectives: Missing Numbers

Third Grade



Math

In this lesson, students must become detectives to solve for the missing number in each subtraction problem. They will develop and use their powers of mathematical reasoning using number bonds to find differences.

Learning Objectives

Students will be able to determine the missing numbers in a subtraction problems (minuends and subtrahends).

Materials and preparation

- Class set of the [Solve for Missing Numbers](#) worksheet
- Whiteboard, chart paper or projector
- Student white boards or notebooks

Attachments

- [Solve for Missing Numbers \(PDF\)](#)

Introduction (5 minutes)

- Draw a number bond on the board with the number 5 in the large circle and number 2 in one of the smaller circles.
- Ask students to turn and talk to a neighbor about what number they think goes in the other circle.
- Take responses from the students. Ask them to share their reasoning. Record strategies on a piece of chart paper.
- Now do the same process with 12 in the large circle and 10 in one of the smaller circles, giving time to discuss, share, and explain their thinking. Add any new strategies to chart paper.
- Explain that the thinking they are using now will come in handy as they learn to find missing numbers in a subtraction problem.

Explicit Instruction/Teacher modeling (10 minutes)

- Pass out individual student whiteboards or have students work in math notebooks.
- Do another example like the ones you just did with the number 40 in the large circle and 25 in the smaller circle. Discuss and share.
- It is important that students see that the same logic and strategies can be applied even as the numbers get bigger.
- Generate more two digit examples if students additional more practice.

Guided Practice (10 minutes)

- Now provide a three-digit example with the number 156 in the larger circle and 45 in the smaller circle. Have students do this three-digit example with a partner if they are unsure. Share and discuss reasoning and strategies as a class, noting that the same strategies can be applied as were used with simpler

Missing Numbers Lesson Plan

Julia Schneider



Missing Numbers Lesson Plan:

Instructor's Guide and Lesson Plans for EM 163, Arithmetic for Everyday Life ,1951 Meaningful Small Groups in Math, Grades K-5 Kimberly Rimbey,2022-08-19 Written for teachers interventionists and instructional coaches this book provides much needed guidance on how to meet the diverse needs of students using small group math instruction The Noisy Number Book ,2010-09 Contains 28 original songs set to well known tunes This title includes songs that cover some of the requirements of the National Numeracy Strategy Counting Number Shape space and measures It can be used in the daily mathematics lesson to help teachers to cater for a range of learning styles visual auditory and kinaesthetic

Understanding and Teaching Primary Mathematics Tony Cotton,2014-04-29 How would you teach the concept of odd and even numbers to a child What is the probability of throwing a three on a six sided die How could you help a child who is confusing ratio and proportion By seamlessly combining subject knowledge and pedagogy the second edition of Understanding and Teaching Primary Mathematics will not only build your own confidence in mathematics but also equip you with the curriculum understanding and pedagogical know how to excel at teaching maths to children of any age Written in a clear and accessible way the book guides you through the fundamental ideas which are at the heart of teaching and learning maths with special focus on observation and assessment of primary and early years children Hallmark features Links to the classroom and research are provided throughout to help you relate educational theory to your own teaching practice Portfolio and audit tasks allow you to assess your own subject knowledge and build up a portfolio of evidence to gain Qualified Teacher Status The accompanying extra resources offers topic specific self audits for you to monitor your progress exemplar lesson plans a range of Portfolio Tasks mapped directly to current teacher standards and web links to up to date online resources New to this edition Resource Inspiration boxes give inviting examples of different activities to do with your class to provide inspiration for your own teaching High quality videos with corresponding discussion have been expertly selected from Teachers TV help to widen your skills and develop your practice offering tips lesson ideas and classroom resources *Math Phonics - Addition* Marilyn B. Hein,1997-03-01 A remarkable new approach to teaching the basics In just minutes a day students can master the addition facts 0 through 10 These 10 unique easy to use lesson plans with worksheets take home pages and other support materials are all you need for a fast fun and effective program **Lessons in Teaching Number and Place Value in Primary Schools** Kathleen Morgan,Stephanie Suter,2014-09-23 Lesson planning in line with the new Primary National Curriculum Structured around the number and place value sections of the programmes of study within the National Curriculum DfE 2013 this book provides practical examples and lesson ideas on how number and place value can be taught within the primary classroom Children need an in depth understanding of our number system in order to access effectively other elements of the number curriculum this is an area of maths that is a high focus throughout the primary curriculum The accompanying commentary before and after each lesson plan informs some of the decisions that you

will make as part of the planning process Potential challenges associated with the lesson including common errors and misconceptions children encounter are also discussed The authors recognise that each class is unique and so you will find suggestions after each lesson on how it can be adapted and developed to suit your teaching needs Did you know that this book is part of the Lessons in Teaching series Table of Contents Teaching the national curriculum for mathematics Teaching number and place value Planning telling the story of the lesson Year 1 One more than one less than year 2 Place value Year 2 Using and signs Year 3 Patterns when counting in multiples Year 4 Negative numbers Year 4 Roman Numerals Year 5 Big numbers Year 6 Understanding decimals Year 6 Reading scales Moving on Glossary of terms Models images and practical resources WHAT IS THE LESSONS IN TEACHING SERIES Suitable for any teacher at any stage of their career the books in this series are packed with great ideas for teaching engaging outstanding lessons in your primary classroom The Companion Website accompanying the series includes extra resources including tips lesson starters videos and Pinterest boards Books in this series Lessons in Teaching Grammar in Primary Schools Lessons in Teaching Computing in Primary Schools Lessons in Teaching Number and Place Value in Primary Schools Lessons in Teaching Reading Comprehension in Primary Schools Lesson in Teaching Phonics in Primary Schools **The Mathematics Lesson-Planning Handbook, Grades K-2** Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole

class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you'll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students Teaching Outside the Box LouAnne Johnson, 2015-09-15 Bring a fresh perspective to your classroom Teaching Outside the Box How to Grab Your Students by Their Brain Third Edition integrates practical strategies and engaging advice for new and experienced teachers Whether you are preparing for your first year of teaching or have been working in the classroom for decades this conversational book provides you with answers to the essential questions that you face as an educator how to engage students encourage self directed learning differentiate instruction and create dynamic lessons that nurture critical thinking and strategic problem solving This updated edition includes expanded material that touches on Project Based Learning brain based teaching creating smooth transitions integrating Common Core into the classroom and other key subject areas Questions for reflection at the end of each chapter help you leverage this resource in book groups professional development courses and in both undergraduate and graduate classes The art of teaching is one that evolves with changing educational standards and best practices to be the most effective teacher possible daily self reflection is critical along with a need to see things from a different perspective This means we must step outside the box moving our focus from fixing the students when a problem arises to helping a teacher improve his or her practice Improve classroom management discipline motivation and morale Explore strategies for arranging your classroom engaging students and avoiding the misbehavior cycle Create an environment where students learn and teachers teach Leverage insight from teachers and students Teaching Outside the Box How to Grab Your Students by Their Brain Third Edition is an essential resource for teachers at any stage in their careers

War Department Education Manual United States Armed Forces Institute, **30 Mathematics Lessons Using the TI-15** Christine Dugan, 2009-11-21 This book is designed for grades 3-5 instruction and provides step by step mathematics lessons that incorporate the use of the TI-15 calculator throughout the learning process The 30 lessons included present mathematics in a real world context and cover each of the five strands number and operations geometry algebra measurement and data analysis and probability 248pp plus Teacher Resource CD **Teaching K-6 Mathematics** Douglas K. Brumbaugh, David Rock, Linda S. Brumbaugh, Michelle Lynn Rock, 2014-04-08 This developmentally sound research based practical text speaks directly to preservice elementary mathematics students about the multitude of ways they can help their future students learn to see the power beauty necessity and usefulness of mathematics in the world Part 1 deals with guiding principles that permeate the text while Parts 2-11 deal with the specific NCTM Standards for grades K-6 Teaching K-6 Mathematics is aligned with the current NCTM Curriculum and Evaluation Standards for School Mathematics integrates

content and methodology emphasizes use of technology as a teaching learning tool stresses problem solving provides basic information on current research in mathematics education focuses on identification of error patterns and analysis uses a down to earth friendly writing style that engages the student rather than prescribing what to do and includes many activities and exercises including games tricks and amusements that can be used in the classroom to increase student interest in mathematics Features Technology is integral throughout the text Students are expected to perform Internet searches investigate new sites appropriate for elementary students sample new software that could be used in the classroom and develop ways to blend calculators into the curriculum Manipulatives are considered essential for students to learn elementary mathematics concepts Cuisenaire rods base 10 blocks chips number lines and geoboards are all part of the manipulative landscape that is created in this text Careful attention is given to blending rote work developmental activities fun application technology manipulatives assessment and planning so that prospective teachers become accustomed to using varied approaches and decision making as a curriculum is determined Tricks Activities and Games TAG provide a wealth of ideas to attract students to learning mathematics

Classroom-Ready Rich Math Tasks, Grades K-1 Beth McCord Kobett, Francis (Skip) Fennell, Karen S. Karp, Delise Andrews, Latrenda Knighten, Jeff Shih, 2021-04-12 Detailed plans for helping elementary students experience deep mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don't have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades K 1 details 56 research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible

Building the Foundation: Whole Numbers in the Primary Grades Maria G. Bartolini Bussi, Xu Hua Sun, 2018-03-29 This twenty third ICMI Study addresses for the first time mathematics teaching and learning in the primary school and pre school setting while also taking international perspectives socio cultural diversity and institutional constraints into account One of the main

challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level Accordingly a focus area that is central to the discussion was chosen together with a number of related questions The broad area of Whole Number Arithmetic WNA including operations and relations and arithmetic word problems forms the core content of all primary mathematics curricula The study of this core content area is often regarded as foundational for later mathematics learning However the principles and main goals of instruction on the foundational concepts and skills in WNA are far from universally agreed upon and practice varies substantially from country to country As such this study presents a meta level analysis and synthesis of what is currently known about WNA providing a useful base from which to gauge gaps and shortcomings as well as an opportunity to learn from the practices of different countries and contexts

Using Stories to Teach Maths Ages 4 to 7 Steve Way, Simon Hickton, 2012-07-17 Make the teaching of Maths a more exciting and creative cross curricular experience This new series provides original and fun stories sketches and poems to use as the basis for teaching objectives from the Mathematics Programme of Study The stories are supported by differentiated lesson plans and original resources such as card games and suggestions for kinaesthetic activities Ages 4 7 stories include The Numbers learn their Order One to Twenty Poem How Sir Cylinder saved Prince Pyramid The numbers have a Quarrel Ten s Problem Joins and Splits Bernice the Octopus buys a Watch All Shapes and Sizes My Problem with Pirates The stories have been road tested in schools and the children thoroughly enjoyed them Differentiated Cross curricular *Continuing Education of Reference Librarians* Bill Katz, 2019-12-06 This book first published in 1990 addresses the concerns of librarians that they must be informed and educated in order to excel in their work It focuses on specific types of training for librarians Authorities explain pioneering programs in California and Maryland which deal with teaching basic reference tools to beginning librarians and paraprofessionals They also discuss the role of multitype networks in continuing education as the most cost and time efficient means available today and the use of self directed contract learning as a method that requires long term planning and rewards in contrast to the immediate results of a short term plan of education The management perspective of continuing education is also included Working library directors offer their observations on sound inspirational approaches to continuing education They also examine the critical role department heads play as mentor to beginning reference librarians

Teaching Children 3 - 11 Anne D Cockburn, Graham Handscomb, 2006-02-18 This book has something for all students combining theory with useful practical advice Issues I know students often find challenging such as behaviour management making the most of the tutor s visit and working with other adults are all included a worthwhile investment for students on any ITT course Child Education Teaching Children 3 11 is a book for those contemplating a career in primary teaching those about to embark on initial teacher education and those who are simply interested in the business of teaching children aged three to 11 years It provides an overview of the key aspects involved in becoming a primary teacher both in terms of new government initiatives e g the National Primary Strategy collaboration and networking and

personalization but also in terms of what it is to be a trainee teacher in the rapidly evolving world of primary schooling This Second Edition brings readers up to date with the many changes that have taken place in primary education in the last five years and the book now takes into account the many different ways of becoming a trainee teacher including open learning in school training and modular study New material in this edition includes a look at CPD studies especially reflection lifelong learning and mentoring collaborative practice and further discussion on professional values and working with other adults in the classroom

Targeting Maths for Victoria Garda Turner, Gloria Harris, 2006 *Differentiated Instruction for K-8 Math and Science* Mary Hamm, 2013-10-18 This book offers practical recommendations to reach every student in a K 8 classroom Research based and written in a teacher friendly style it will help teachers with classroom organization and lesson planning in math and science Included are math and science games activities ideas and lesson plans based on the math and science standards This book will help your students to develop positive attitudes and raise competency in math and science

Philippine Teacher, 1929 *Soul Numbers* Michelle Arbeau, 2014-07-01 Is it just a coincidence that a record number of people are seeing in numbers or could it be the fabric of the universe revealing itself to us According to the religion of Kabbalah and even the ancient Greek philosopher and mathematician Pythagoras the truths of the universe are contained within numbers The phenomena of numbers seeing repeating numbers and number sequences are sweeping the globe People from the average Joe to celebrities are seeing repeating numbers on clocks in addresses in phone numbers in account numbers and on license plates just to name a few Repeating numbers and number sequences are showing up in both the quirky and the commonplace on a daily basis Skeptics argue that seeing repeating numbers is simply a matter of pattern recognition and it's all in our head There have been scientific theories throughout history that attempt to explain the basis of the universal structure from String Theory to the Holographic universe All things in existence can be counted sorted or measured using numbers and intriguingly a common thread in many theories is mathematics More people are reporting the same phenomena in all cultures races and religions turning skeptics into believers Soul Numbers has the potential to create a tidal wave amid this numbers phenomenon making it the new most complete numbers meaning bible Numerology books offer some insight into the base number meanings of 0 to 9 but fail to go further to precisely pinpoint and explain why someone is seeing 1 47 on a clock daily and what it means to them Covering the number meanings from 0 to 999 Soul Numbers helps readers decipher any number sequence Whether they're seeing single 2s everywhere or exactly four 2222 it will allow them to break the numbers down like an ancient code Unlike other titles with mainly angelic focused number meanings this book holds a broad spectrum view of number patterns weaving science and spirituality to spark the curiosity of both the skeptic and the die hard spiritualist

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