

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

Belinda Christine Tetteris



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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

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

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