ALSF Lesson Plans and Activities

CCSS-Aligned Lesson Plans: Mathematics

Focus Skill: Operations and Algebraic Thinking

Common Core Standard(s):

CCSS.MATH.CONTENT.2.OA.A.1

Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

Learning Targets:

I can recognize keywords for addition and subtraction.
I can add and subtract numbers in word problems.

Materials:

- Keywords page
- Chart paper
- Guided and Independent Practice pages
- Manipulatives (cups with lemonade if possible; otherwise blocks, beads, marbles, etc.),
- Highlighters (optional)

Introduction:

Let's say we're holding a lemonade stand and we make a whole lot of lemonade. I wonder how many cups we will make. Let's estimate: Give me a number between 0 and 100. (Teacher chooses an appropriate number based on the class's ability level)

When someone gives us donations for lemonade, they are removing – or *taking away* – that lemonade from our table. If we start with (chosen number) of cups, and someone comes to buy (appropriate number to subtract), we should **subtract** that number from what we had to figure out what we have left. You use subtraction when you know something is being *taken away*, because you'll have less things later on than what you started with.

e.g. 63 – 19 = 44 cups (Show all work, and have students help if this computation is not new to them)

Let's say the class next door combines their stand with ours. If we have 44 cups and they give us 27 more, how many will we have in total? (Compute together and write this down.) So when I know I'll have more of something than I started with, I know I'll be **adding** numbers together.

There were some helpful keywords I used when describing this situation. These will help us to understand whether or not we have to add numbers or count on/subtract numbers. They're not always perfect, but they're helpful hints. (Present page and review the introductory problem pointing to these phrases.)

Introduction: (continued)

Let's try another one. (This should be on chart paper.)

Our class has 73 cups of lemonade. We sell 45 cups. Then, our principal brings us 16 more of them. How many do we have now? (Highlight keywords before computing, like 'sell', 'brings', and 'more' – and distinguish it from 'how many more'. Discuss the actions that are occurring more than the keywords, reiterating that they are more like hints. Solve by re-reading and stopping to compute along the way.)

Let's try one more example. You will have this one on a page in front of you, so you can help find key words and do the work with me. (Same process, but have students highlight/underline, write as you write, and answer questions as you go.)

Activity:

Now it's your turn try this on your own. You've got a page in front of you with more problems to solve. Be sure to find your keywords, think about what's happening in the problem, and add or subtract based on what's being asked throughout the problem.

Progress Monitor:

Review the worksheet and, if time allows, have students answer and hand in an exit ticket. (Two versions are attached based on ability level.)

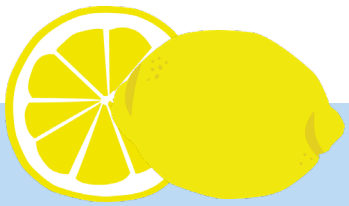
Accommodations/Modifications:

- There are multiple versions of the practice pages depending on students' skill levels
- Scaffold the process of writing out steps
- Students can work in pairs on the Guided Practice and/or independent practice problem
- Manipulatives or base ten blocks to show what's happening in each step of a problem
- Advanced learners can have more than two steps in their word problems (see attached)

Thank you again for your interest in Alex's Lemonade Stand Foundation!

We hope you will consider supporting ALSF with the help of your class, club, school, district, or community group.

Please contact our office by phone at 866.333.1213 or by e-mail at Takeastand@alexslemonade.org if you have any questions or need help getting started.

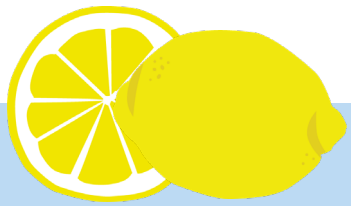


Name _____ Date _____

Practice Page 1A: Addition and Subtraction Word Problems

Alex had 25 lemons on Saturday to make lemonade for her stand. She used 12 of them. How many lemons did Alex have at the end of the day?

Alex brought these leftover lemons with her on Sunday, and her mom gave her 8 more. How many lemons did Alex have on Sunday in all?



Name _____ Date _____

Practice Page 1B: Addition and Subtraction Word Problems

Alex had 53 lemons on Saturday to make lemonade for her stand. She used 21 of them by the end of the day. Alex brought these remaining lemons on Sunday, along with 10 extra lemons her mom gave to her. How many lemons did Alex have on Sunday in all?

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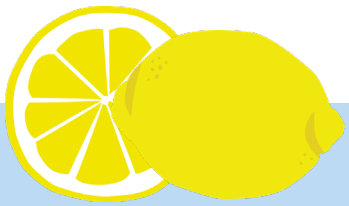
Practice Page 2A: Addition and Subtraction Word Problems

1) Alex and her dad went to the store. Alex picked up 20 cups and her dad added 15 cups. Then, Alex picked up 5 lemons and her dad chose 4 more lemons.

   a) How many **cups** did they have in total?

   b) How many **lemons** did they have in total?

2) Alex had 16 cups of lemonade and her friend had 11 cups of lemonade. They sold 24 cups of lemonade. How many cups of lemonade did they have left?



Name _____ Date _____

Practice Page 2B: Addition and Subtraction Word Problems

1) Alex and her dad went to the store. Alex picked up 38 cups and 25 lemons. She kept 10 cups and 8 lemons in her hands, and put the remaining items into the shopping cart. How many of each item did she put into the cart?

2) Alex had 36 cups of lemonade at her stand and she sold 28 of them. Then, she made 44 more and added them to her stand. How many cups of lemonade did she have in total?

Name _____ Date _____

Exit Ticket A: Addition and Subtraction Word Problems

Alex's brothers surprised her with 22 jars of lemonade mix. She used 7 jars on Tuesday and she used 6 jars on Wednesday. How many jars did Alex have left?

ALEX'S LEMONADE STAND FOUNDATION FOR CHILDHOOD CANCER

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Exit Ticket B: Addition and Subtraction Word Problems

Alex's brothers surprised her with 47 jars of lemonade mix on Tuesday and 39 more jars on Wednesday. Alex used 51 jars in her first week. How many jars did she have left?