

MIA BULJAN: You know what? We're going to do math now.

STUDENTS: Yeah!

MIA BULJAN: What do you do when you have an answer? I want you to think about how many tens instead of how many ones. Some of us really need to concentrate, so you're going to sit flat. And if you think of another way, what do you do? So when you're done, try another way instead of yelling. Shh. You found two ways. If you do it another way, should you get the same answer or a different answer?

STUDENT: Different.

STUDENT: If we do it the right way with the other one, it should be right.

MIA BULJAN: Okay. Show me with your thumb. Show me with your thumb if you're ready. Janiya, what's your answer?

STUDENT: Fifty.

MIA BULJAN: Fifty?

STUDENTS: Me too. Me too.

MIA BULJAN: A lot of me-too's. Okay. Okay. Did somebody get a different answer? Sa'Rye?

STUDENT: Thirty-one.

STUDENTS: Thirty-one? Thirty-one?

MIA BULJAN: Hold on. Hold on. Do you have a question for Sa'Rye? Ashley, ask her.

STUDENT: If you have 32, I don't think so you will get 31.

MIA BULJAN: Kalea, what was your answer?

STUDENT: Actually, it's already on the board but I wanted to...

MIA BULJAN: Tell me how?

STUDENT: Yeah.

MIA BULJAN: I want to hear all about that in a minute. Who has a different answer? Nalani, what was your answer?

STUDENT: Seventy.

STUDENTS: Ooh! Ooh.

MIA BULJAN: Does somebody have a different answer? Mark?

STUDENT: Forty-nine.

MIA BULJAN: A different answer. So if we were voting, which answer would win?

STUDENT: Fifty.

MIA BULJAN: But in math, is it the popular answer?

STUDENT: We have to test it.

MIA BULJAN: No, it's the one that we can...

STUDENTS: Test. Prove.

MIA BULJAN: Test and prove, exactly. So who wants to prove their answer? Sa'Rye, what answer did you get?

You started from 18 and what did you do? You counted by...

STUDENT: 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.

MIA BULJAN: So she said, "I counted like this. I said 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31." What do you notice?

STUDENTS: 3, 4, 5, 6, 7, 8, 9, 10...

MIA BULJAN: Sa'Rye, what are they counting?

STUDENT: 11, 12, 13.

STUDENT: I got 10.

MIA BULJAN: Afoa, come up and point to what you're counting at.

STUDENT: I was counting by tens.

MIA BULJAN: You're counting by tens? Show me the tens.

And what about those extra ones?

STUDENT: Uh...

MIA BULJAN: Is that enough to make a ten?

STUDENT: No.

MIA BULJAN: Okay, so take a look. Have a seat. Why did he circle those, Sa'Rye?

What did he make this group right here of?

STUDENT: Ten.

MIA BULJAN: Ten. So let's count it like this. 10...13. How many are you supposed to add on? If you start with 18, you're supposed to add how many?

STUDENT: Thirty-two.

MIA BULJAN: Thirty two. Hm. This is Sa'Rye's way. It's called counting on from the first number. So what I want you to do, Sa'Rye, while we're talking about the other ones, I want you to look for a strategy that feels good, that you think you might want to try, okay? So listen to other

people how they solved it and see if one of them makes sense to you. Okay? What was your answer?

STUDENT: Fifty.

MIA BULJAN: Can you tell us how you got fifty?

STUDENT: I put...I put the one ten-stick and the three ten-sticks together and that made 40, and then I put the eight and the two together. And eight plus two equals 10 and then, and then I got 50.

MIA BULJAN: And you got 50. Janiya, you said that inside of here was a ten-stick? And inside of here was?

STUDENT: Three ten-sticks.

MIA BULJAN: Three ten-sticks. Does everybody see why she says that? No? So this one...Josie says that this one is a ten-stick and that this three is three ten-sticks. Can I get an "agree" or a "disagree"? That's something that you did too?

STUDENT: Yeah.

MIA BULJAN: Okay. And then she counted it...Janiya, tell me how you counted this? You put these together?

STUDENT: Yeah.

MIA BULJAN: And what did you get?

STUDENT: Forty, and I put the eight and the two together, and eight plus two equals...and then I got that.

MIA BULJAN: Okay. You guys, can we just count this and verify? Count with me.

STUDENTS: 20, 30, 40.

MIA BULJAN: So inside here was a ten, and an eight, and three tens, and a two? Sa'Rye, is that making sense to you? He put this eight and this two together and that made 10. So what was 40 plus 10, Janiya?

STUDENT: Fifty.

MIA BULJAN: Did anybody...first of all, were there any me-too's? Did anybody else think of this as tens and ones? Can you turn so everybody can hear you?

STUDENT: First...first I put the two with the eighteen, then I counted 30 more in my hands, then I got 49, and plus one more is 50. So I got 50.

MIA BULJAN: He said, "I put the two with the 18." Where did the two come from?

STUDENT: From the 32.

MIA BULJAN: So inside here is a two and a 30, and you put these together to make 20.

STUDENT: What?

MIA BULJAN: Well, what's 18 plus two?

STUDENTS: Twenty.

MIA BULJAN: Okay. And then you still had...

STUDENT: Thirty left so I counted...

MIA BULJAN: 20, 30, 40, 50. So yeah, we have this idea that if this one is missing some, we can move them over to make it an easier problem. Twenty plus 30 feels a lot easier than 18 plus 32, right? That's Anthony...Anybody else do it Anthony's way? I see Afoa...

Oh, you want to change your answer to fifty? Whose way convinced you? Janiya's way or Anthony's way?

STUDENT: Janiya's way.

MIA BULJAN: Interesting! Good job, Janiya, that was a very convincing argument.